Ed Zone Management Program

STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE

INITIAL DRAFT

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Office of Management, Budget, and Planning

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February 1981

STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE

INITIAL DRAFT

Office of Management, Budget, and Planning with the technical assistance of Roy F. Weston, Inc.

February 1981

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STATE OF DELAWARE EXECUTIVE DEPARTMENT

OFFICE OF MANAGEMENT, BUDGET, AND PLANNING

OFFICE OF THE DIRECTOR

DOVER, DELAWARE 19901

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February 1981

To the Participants and Reviewers of the Statewide Critical Areas Plan

In accordance with the provisions of 29 Delaware Code, Chapter 92, Section 9212 of the Delaware Land Use Planning Act of 1978, the Office of Management, Budget, and Planning has prepared an INITIAL DRAFT of the Statewide Critical Areas Plan for Delaware, and we are enclosing it for your review and consideration.

This Draft represents the completion of the first phase toward the development of the final State Plan and includes input from the local jurisdictions as required by the Act. Please note that this is a draft document. We are transmitting it for your review and comment and will modify it as appropriate to incorporate your suggestions.

If you have any questions or comments about this Draft Plan, please contact OMBP. Written comments should be submitted within 60 days, attention:

> Mary L. McKenzie Planner Office of Management, Budget, and Planning Townsend Building, Third Floor P.O. Box 1401 Dover, DE 19901

Phone: (302) 736-4271

Thank you for your cooperation in this matter.

Very truly yours,

David S. Hugg, III Acting Director

DSH:MLMcK:mas Enclosures

INITIAL DRAFT

STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE

TABLE OF CONTENTS

ACKNOWLEDGEMENTS

GLOSSARY OF ABBREVIATIONS

SECT	TONS		PAGE	
1.0	INTRODUCTION AND OBJECTIVES			
	1.1	1.1 Background to Statewide Plan		
		1.1.1 Delaware Tomorrow Commission	1	
		1.1.2 Coastal Management Program	2	
	1.2	Role and Uses of Statewide Critical Areas Plan	3	
	1.3	Associated Programs and Legislation	3	
		1.3.1 State Programs	4	
		1.3.2 Federal Programs	10	
		1.3.3 County/Local Programs	12	
	1.4	Statewide Plan Objectives	13	
		1.4.1 Short-Term Objectives	13	
		1.4.2 Long-Term Objectives	14	
2.0	CRIT	ICAL AREA CATEGORIES	15	
	2.1	Definitions and Broad Categories	15	
		2.1.1 Definition of Critical Areas	15	
		2.1.2 Definitions of Associated Terms	15	
	2.2	Characteristics and Evaluation	16	
	2.3	Critical Areas Categories	18	
3.0	CRITICAL AREAS INVENTORY		. 20	
	3.1	Development and Organization of Input	20	
	3.2	Evaluation Criteria and Presentation Format	23	
	3.3	Statewide Critical Areas Inventory	25	
		3.3.1 Physical/Natural Areas	27	
		3.3.2 Physical/Other Areas	83	
	•	3.3.3 Social Areas	89	
		3.3.4 Economic Areas	104	
	3.4	Special Local Area Concerns	119	
4.0	PLAN	REFINEMENT PHASES	120	
	4.1	Refinement of Statewide Plan (Initial Draft)	120	
	4.2	Preparation of Statewide Plan (Final Draft)	120	
	4.3	Public Hearings	120	
	4.4	Official Statewide Critical Areas Plan	122	
	4.5	Critical Areas Plan Implementation and Updating Process	122	

TABL	<u>ES</u>	PAG	E				
	Statewide Critical Areas Category List	1	_				
	Recommended Unique Natural Areas	30					
	Recommended Public Beaches	3!					
	Federal Emergency Management Agency Federal Insurance	Administration 4	6				
	Recommended Flood Hazard Areas	. 4'					
	Recommended Surface Water Bodies	5	_				
	Recommended Wetlands/Tidal Lands	5					
- '	Recommended Forests and State Parks	. 6					
	Recommended Aquifers/Recharge Areas	7.	_				
	Recommended Geologic Hazard Areas	7	_				
	Recommended Minerals and Geologic Features	8					
	Recommended Other Recreation Sites	8-	4				
	Recommended Waste Disposal Sites	. 8	6				
	Recommended Impoundment Sites	· 8	7				
	Educational and Speical Institutions in Delaware	· 9	1				
	Recommended Institutions	9	2				
	Recommended Historic/Archaeological Sites	9	6				
	Recommended Communications and Public Safety	10	1				
	Recommended Highways and Intersections	10	5				
	Recommended Airports	109	9				
	Recommended Railroad and Yards	11	0				
3-21	Recommended Port Facilities	11	1				
3-22	Recommended Public Utilities	11	3				
3-23	Recommended Industrial Sites/Other Employment Centers	11	6				
FIGUI	RES	PAG	E				
			=				
3- 1	Critical Areas Inventory Preparation		2				
3- 2	Critical Natural Areas and vistas in Delaware	3	6				
3- 3	Delaware's Beaches	4	1				
3- 3	3 Delaware's Beaches (continued)						
	Delaware's Beaches (continued)	4	3				
	Delaware's Major Streams	5	0				
3- 5	The Coastal Strip	5:	1				
	Generalized Wetlands Map of Delaware	6	2				
3- 7	Acreage and Location of Delaware State Forest Lands	. 6	7				
3- 7	7 Acreage and Location of Delaware State Park Lands						
	8 Aquifer Subcrop and Recharge Areas to be Protected in Delaware						
	9 Public Water Supply Well Field (tapping the surficial aquifers)						
	10 Prime Productive Surficial Aguifer Areas in Delaware						
	-11 Mineral Resources of the Delaware Coastal Plain						
	Generalized Geologic Map of Delaware	7:	9				
			•				
4- 1	Statewide Plan Refinement Phases	12	1				

essettä 6.6

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APPENDICES

- A. LOCAL CRITICAL AREAS PLAN
 Introduction
 Presentation of Local Inputs
- B. LIST OF AGENCIES AND ORGANIZATIONS RECEIVING
 THE STATEWIDE CRITICAL AREAS PLAN (INITIAL DRAFT)
- C. COPIES OF CORRESPONDENCE TO AGENCIES AND ORGANIZATIONS

Acknowledgements

The Office of Management, Budget, and Planning wishes to express its appreciation of the cooperation and participation of the municipal and county governments in their preparation of local critical areas input to the first phase of the Statewide Critical Areas Plan. We are very appreciative of the courtesy and support extended by the Director of the Delaware League of Local Governments in working with the local jurisdictions. The County Governments, especially Kent County, are to be commended for their leadership in developing their plans and extending assistance and support to the municipalities within their jurisdictions to develop their plans. The municipal governments are to be commended for demonstrating additional efforts, such as willingness to hold special meetings in order to submit their input to this Statewide Plan.

We wish to acknowledge the participation of all the other State agencies, along with related federal agencies who provided valuable input throughout the various stages of the preparation of this Draft Plan.

To the public and private interest groups and individuals, we extend our thanks for their participation, input and interest shared in this effort.

We acknowledge the reference reports, such as the State Comprehensive Outdoor Recreation Plan (Source, DNREC), Delaware's Outstanding Natural Areas and their Preservation (Source, DNES), Delaware's Coastal Management Program (Source, OMBP), and National Register of Historic Places for their very valuable input to the Draft Statewide Critical Areas Plan.

Finally, we are very appreciative of the eforts of Roy F. Weston, Inc., for the technical assistance provided, and especially the outreach efforts extended by Weston staff in working with the local jurisdictions in the preparation of their critical areas input.

	GLOSSARY OF ABBREVIATIONS*				
State of Delaware					
OMBP	Office of Management, Budget, and Planning				
DNREC	Department of Natural Resources and Environmental Control				
DFW	Division of Fish and Wildlife				
DS&WC	Division of Soil and Water Conservation				
WSB	Water Supply Branch				
OHP&R	Office of Heritage, Planning and Research				
DH&SS	Department of Health and Social Services				
DMH	Division of Mental Health				
DPH	Division of Public Health				
DAS	Department of Administrative Services				
DCDP	Division of Central Data Processing				
DPS	Department of Public Safety				
DEPO	Division of Emergency Planning and Operations				
DS	Department of State				
DH&CA	Division of Historical and Cultural Affairs				
PSC	Public Service Commission				
DGS	Delaware Geological Survey				
СМР	Coastal Management Program	•			
SCORP	State Comprehensive Outdoor Recreation Plan				
County/Local					
NCC	New Castle County				
NCC-VoA	Village of Arden				
NCC-Tob	Town of Bellefonte				
NCC-DC	Delaware City				
NCC-ToE	Town of Elsmere				
NCC-Tom	Town of Middletown				
NCC-Con	City of Newark				
NCC-TON	Town of Newport				
NCC-CONC	City of New Castle				
NCC-ToO	Town of Odessa				
NCC-Cow	City of Wilmington				
KC	Kent County				
KC-TBB	Town of Bowers Beach				
KC-ToC	Town of Cheswold				
KC-TC	Town of Clayton				
KC-CoD	City of Dover				
KC-Tof	Town of Frederica				
кс-тон	Town of Hartly				

^{*}This glossary of abbreviations is added to the Initial Draft of the Statewide Critical Areas Plan for Delaware in order to identify the sources and references used throughout the text.

Town of Houston

Town of Leipsic

KC-TH

KC-ToL

GLOSSARY OF ABBREVIATIONS (continued)

County/Local	
KC-ToM	Town of Magnolia
KC-CM	City of Milford
KC-ToS	Town of Smyrna
SC	Sussex County
SC-TBB	Town of Bethany Beach
SC-ToB	Town of Bridgeville
SC-ToD	Town of Delmar
SC-ToE	Town of Ellendale
SC-TFI	Town of Fenwick Island
SC-ToG	Town of Georgetown
SC-TG	Town of Greenwood
SC-THA	Town of Henlopen Acres
SC-ToL	Town of Laurel
SC-CoL	City of Lewes
SC-ToM	Town of Millsboro
SC-TM	Town of Milton
SC-CRB	City of Rehoboth Beach
SC-Tosb	Town of Slaughter Beach
SC-ToS	Town of Selbyville
SC-TSB	Town of South Bethany
Federal	
USDI	II C Banartmant of Interior
HCRS	U. S. Department of Interior Heritage Conservation and Recreation Service
ncro	nericage conservation and Recreation Service
USDC	U.S. Department of Commerce
NMFS	National Marine Fisheries Service (under National Oceanic
	and Atmospheric Administration - NOAA)
U.S. DOT	
FAA	U. S. Department of Transportation
	U. S. Department of Transportation Federal Aviation Administration
DAF	
DAF DAFB	Federal Aviation Administration
	Federal Aviation Administration Department of Air Force Dover Air Force Base
	Federal Aviation Administration Department of Air Force
DAFB SCS	Federal Aviation Administration Department of Air Force Dover Air Force Base Soil Conservation Service
DAFB	Federal Aviation Administration Department of Air Force Dover Air Force Base
DAFB SCS USEPA	Federal Aviation Administration Department of Air Force Dover Air Force Base Soil Conservation Service U. S. Environmental Protection Agency
DAFB SCS	Federal Aviation Administration Department of Air Force Dover Air Force Base Soil Conservation Service
DAFB SCS USEPA FEMA	Federal Aviation Administration Department of Air Force Dover Air Force Base Soil Conservation Service U. S. Environmental Protection Agency
DAFB SCS USEPA FEMA	Federal Aviation Administration Department of Air Force Dover Air Force Base Soil Conservation Service U. S. Environmental Protection Agency Federal Emergency Management Agency
DAFB SCS USEPA FEMA	Federal Aviation Administration Department of Air Force Dover Air Force Base Soil Conservation Service U. S. Environmental Protection Agency
DAFB SCS USEPA FEMA Others DNES	Federal Aviation Administration Department of Air Force Dover Air Force Base Soil Conservation Service U. S. Environmental Protection Agency Federal Emergency Management Agency Delaware Nature Education Society
DAFB SCS USEPA FEMA	Federal Aviation Administration Department of Air Force Dover Air Force Base Soil Conservation Service U. S. Environmental Protection Agency Federal Emergency Management Agency
DAFB SCS USEPA FEMA Others DNES DOS	Federal Aviation Administration Department of Air Force Dover Air Force Base Soil Conservation Service U. S. Environmental Protection Agency Federal Emergency Management Agency Delaware Nature Education Society Delmarva Ornithological Society
DAFB SCS USEPA FEMA Others DNES	Federal Aviation Administration Department of Air Force Dover Air Force Base Soil Conservation Service U. S. Environmental Protection Agency Federal Emergency Management Agency Delaware Nature Education Society
DAFB SCS USEPA FEMA Others DNES DOS SOSD	Department of Air Force Dover Air Force Base Soil Conservation Service U. S. Environmental Protection Agency Federal Emergency Management Agency Delaware Nature Education Society Delmarva Ornithological Society Save Our Seashores of Delaware
DAFB SCS USEPA FEMA Others DNES DOS	Federal Aviation Administration Department of Air Force Dover Air Force Base Soil Conservation Service U. S. Environmental Protection Agency Federal Emergency Management Agency Delaware Nature Education Society Delmarva Ornithological Society
DAFB SCS USEPA FEMA Others DNES DOS SOSD	Department of Air Force Dover Air Force Base Soil Conservation Service U. S. Environmental Protection Agency Federal Emergency Management Agency Delaware Nature Education Society Delmarva Ornithological Society Save Our Seashores of Delaware

INITIAL DRAFT

STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE

1.0 INTRODUCTION AND OBJECTIVES

1.1 Background to Statewide Plan

The Statewide Critical Areas Plan is a product which has emerged to address certain land use planning issues identified in the <u>Delaware Tomorrow</u>

<u>Commission Report</u> and the <u>Coastal Management Program Plan</u>. The following summary provides a brief description of the relationship between the Delaware Tommorrow Commission, the Coastal Management Program, the Land Use Planning Act and its Critical Areas Plan.

1.1.1 Delaware Tomorrow Commission

On June 19, 1974, the Delaware Tomorrow Commission was created by Executive Order of Governor Tribbitt, and charged with the responsibility to develop a Statewide Plan for growth. The Commission's task was to examine policy concerning industrial, commercial and residential development including open space, recreation and transportation, and to recommend the path of economic growth that Delaware should pursue and the policies required for that pursuit.

The recommendations made by the Commission in the above-mentioned areas were adopted as an amendment to the Delaware Comprehensive Development Plan in 1976. Included in the recommendations was that of creating a Statewide Land Use Plan which would be developed in a cooperative effort with the full participation of all the departments in the State government, the counties and municipalities of the State.

In accordance with the requirements of Executive Order No. 12, issued by Governor Pierre S. du Pont, IV, in April 1977, a report was prepared in the form of a draft of proposed legislation on Statewide Land Use Planning by the Delaware Tomorrow Commission. The legislation (Senate Bill No. 358) was

enacted by the Delaware General Assembly in July 1978, for purposes of achieving consistency and coordination between the levels of government and between government and private enterprise in Delaware. Through this program, a process is established whereby State, local, regional and federal agencies are notified when potentially important land use decisions are contemplated. These decisions may involve the adaption or amendment of a comprehensive development plan or capital improvement programs, actions relating to the planning for or construction of major facilities for public and private institutions, land use actions having a significant impact upon more than one local jurisdiction, or actions affecting a critical area.

Relative to <u>critical areas</u>, the Land Use Planning Act requires each local jurisdiction to prepare a plan designating critical areas and forward it to the State Office of Management, Budget, and Planning (OMBP); OMBP is required to prepare a Statewide Plan designating critical areas with due consideration of local input.

1.1.2 Coastal Management Program

The Coastal Management Program (CMP) of the State of Delaware addresses the subject of the designation of "areas of particular concern" within the Coastal Zone. The Program has cited the Land Use Planning Act provision for the Critical Areas Plan preparation as one of the major processes by which this subject will be addressed. Most of these areas are of particular concern because of their coastal-related values or characteristics, or because they may face pressures which require attention beyond that provided in the general Coastal Management Program planning and regulatory system.

Included in the CMP are policies and recommendations on development growth, and management issues and the incorporation of the various State Statutes and Regulations which assist in managing and preserving valuable resources

throughout Delaware; these resources which have been designated as areas of particular concern include such areas as wetlands, public lands and beaches.

For the most part, CMP policies are supported by statute and regulation, and the resources/areas covered by CMP policies are mostly critical in nature.

1.2 Role and Uses of Statewide Critical Areas Plan

The Coastal Management Program makes reference to the Critical Areas Plan preparation process which is required of the State and all local governments pursuant to the Land Use Planning Act (Title 29 <u>Delaware Code</u>, Chapter 92, Section 9212). In this context, the primary role of the Critical Areas Plan is to implement the critical areas provisions of the Land Use Planning Act.

Through the preparation of the Statewide Critical Areas Plan, many of the actions which are required in the CMP's inventory and designation of "areas of particular concern" will be appropriately addressed. At the same time, it is expected that the Statewide Plan will provide a valuable tool for reviewing and coordinating major land use planning decisions throughout the State of Delaware. A comprehensive overview of the purposes to be served by the preparation of a Statewide Critical Areas Plan is expressed through the Plan Objectives contained in Section 1.4.

1.3 Associated Programs and Legislation

With respect to other programs and legislation in Delaware, the Critical Areas Plan should be viewed as both an integral part and a special coordinative link. It reflects the continuing efforts to address the issues of improving the planning for, and the development and preservation of the State's valuable environmental, economic and social resources. In addition to the CMP, other major programs which are directly/indirectly referenced to the Critical Areas Plan. These include State, Federal and County/local programs, as discussed on the next page.

1.3.1 State Programs

Programs which have direct or indirect relationship/effect with the Critical areas Plan include:

- -- Governor's Advisory Committee on Farmland Preservation
- -- Flood Insurance Program
- -- Coastal Zone Management Act
- -- Natural Areas Preservation System
- -- Environmental Protection Act
- -- Wetlands Act
- -- The Beach Preservation Act
- -- The Underwater Lands Act
- -- Erosion and Sedimentation Control Act

Governor's Advisory Committee on Farmland Preservation

One of the stipulations of the Land use Planning Act, Critical Areas Plan Section, is that agricultural lands in productive use would be considered separate from the Critical Areas Plan context.

The issues of farmland preservation are being addressed through another mechanism, that of the Governor's Advisory Committee on Farmland Preservation. The Committee is required to submit a final report with recommendations to the Governor by January 1981. The Committee's draft report, issued in September, called for exclusive agricultural zoning districts tied to various tax incentives. These districts would be established at the county level, based upon the United States Department of Agriculture and the Soil Conservation Service soil classifications and soil productivity. Agricultural activities would be the priority uses in such districts, with few other (non-agricultural) uses permitted. After public review, the Committee has decided to consider a voluntary program, also including incentives, designation of districts, and providing for primarily agricultural uses. The Statewide Critical Areas Plan will ultimately consider the designation of such districts or any other approaches approved by the Committee and enacted by the General Assembly.

Flood Insurance Program

Through the provisions of the National Flood Insurance Act of 1968, the Federal Emergency Management Administration (FEMA) is responsible for encouraging property owners to purchase subsidized flood insurance and local governments to adopt or administer flood plain regulations. Through the FEMA-funded studies, flood prone areas are mapped and regulated to minimize damage to property and the risk of personal injury as a result of flood events. The State of Delaware, New Castle, Kent, and Sussex Counties, and almost all affected communities in the State are participating in flood insurance/flood-plain management programs.

Coastal Zone Management Act

As discussed earlier, the provisions of the Coastal Zone Management Act of 1972 (P. L. 92-583), as amended, direct State control over the 'coastal zone', an area approximately two miles wide along the State's shoreline. Under the Act, new heavy industrial uses are absolutely prohibited in the coastal strip, along with offshore "bulk product transfer facilities". Because manufacturing uses are deemed less detrimental to the environment than heavy industrial uses, certain new manufacturing uses are allowed in the coastal strip by permit only.

The 1972 Statute includes a method for resolving conflicts among competing interests, in the event a developer, or other aggrieved party, feels the Act is being unfairly administered. The statute provides an appeals procedure with first recourse to the Coastal Zone Industrial Control Board and then to the State Superior Court for taking issue with CMP actions and provisions.

Natural Areas Preservation System

Title 7, <u>Delaware Code</u>, Chapter 73, establishes a Natural Areas Preservation System. Under the statute, The Department of Natural Resources and Environmental Control (DNREC) is responsible for: (1) formulating policies for the selection,

acquisition, use, management, and protection of nature preserves; (2) defining and updating system purposes; (3) surveying and recording unique natural areas within the State; (4) disseminating information pertaining to nature preserves within the State; (5) promoting restoration of natural areas; and (6) adopting regulations for the use and protection of natural areas.

Political subdivisions and other instrumentalities of the State, including schools and universities, are encouraged to dedicate suitable areas as nature preserves.

A specific areas is dedicated as a nature preserve in the same manner and with the same effect as a conveyance of an interest in land; i.e., by notifying the County Recorder for recording the area. Once land has been duly dedicated, it cannot be used for any purpose inconsistent with its preservation unless the following steps occur: (1) a public hearing is held; (2) DNREC finds there exists an imperative and unavoidable public necessity for such use; (3) the Governor approves the use; and (4) the General Assembly, by legislative act, approves the use.

Although the Preservation Act does not attempt to preserve (in a regulatory manner) unique natural areas which are privately owned, it is an important device for acquiring interest in or encouraging the dedication of such lands without infringing on private rights through actions such as eminent domain.

Environmental Protection Act

Through the provisions of the Delaware Protection Act (Title 7, <u>Delaware Code</u>, Chapter 60), the Department of Natural Resources and Environmental Control is authorized to exercise direct State control over specified activities related to air and water pollution which takes place anywhere within the State. Furthermore, the CMP incorporates the requirements of the

Federal Water Pollution Control Act (FWPCA) and the Clean Air Act (CAA), as implemented by the Environmental Protection Act.

Several sets of regulations adopted by DNREC pursuant to the Protection Act augment that agency's authority. These sets include regulations governing: (1) the control of water pollution through (effluent standards); surface water quality through stream standards for streams; (3) solid waste disposal; (4) installation and operation of septic tanks; (5) control of air pollution; and (6) implementation plans for attainment and maintenance of national ambient air quality standards.

This statute is very broad. A DNREC permit can be required for any activity which might cause or contribute to air or water pollution; ground or surface water withdrawal, solid waste collection or disposal, and construction or operation of sources and distribution systems.

The Wetlands Act

The Wetlands Act (Title 7, <u>Delaware Code</u>, Chapter 66), authorizes DNREC to exercise direct State control over all lands between the mean low water elevation and two feet above the local mean high water elevation, upon which grows or may grow typical marsh plants listed in the Act.

Activities requiring a DNREC Wetlands Act permit include dredging, draining, filling, bulkheading, excavation, drilling, and construction of any kind, including piers, jetties and boat ramps. Prior to issuing any wetlands permit, DNREC must consider the proposed activity's environmental impact, economic impact, aesthetic effect, effect on neighboring land uses, the number and type of public and private support facilities required, as well as the impact of such facilities, the need for water access, and the availability of alternatives.

The following activities are not specifically regulated by the Wetlands

Act or regulations issued pursuant thereto: (1) mosquito control activities

authorized by DNREC under separate authority; (2) construction of directional

aids to navigation, duck blinds, and foot bridges, (3) placement of boundary

stakes; (4) building of wildlife nesting structures; (5) grazing of domestic

animals; (6) haying; (7) hunting, fishing, and trapping.

The Beach Preservation Act

The Beach Preservation Act (Title 7, <u>Delaware Code</u>, Chapter 68), requires DNREC to pass regulations to effectuate the purposes of the Act. The statute says "the purposes of this Chapter are to enhance, preserve, and protect the public and private beaches of the State ..." This broad directive, coupled with rule-making authority, gives DNREC wide discretion in Delaware beaches' preservation.

Under the Beach Act, no substantial change in the existing characteristics of any beach may be made without prior written approval of DNREC. The regulations require such approval for the following activities on <u>public</u> beaches: (1) carrying away beach material; (2) changes which increase the potential for beach erosion; (3) operation of dune buggies, automobiles, or other machines; and (4) construction of any structure on the landward side of the primary dune (if such construction has a substantial effect on the dune, a permit is also required).

Written approval is required for the following activities on private beaches: (1) construction of structures landward of the primary dune (a permit is required if the construction would have a substantial effect on the dune); (2) changes increasing the potential for beach erosion; and (3) conditions unreasonably dangerous to persons or property.

No construction is allowed on or seaward of the primary dune if the owner (public or private) has land on which to build behind the dune. When there is no alternative, a construction permit is required which will not be granted unless an adequate flood protection plan is presented. Permits are also required for the construction of groins, jetties, and bulkheads.

The Underwater Lands Act

The Underwater Lands Act (Title 7, <u>Delaware Code</u>, Chapter 61), authorizes DNREC to exercise direct State control over State lands lying below mean high water. Most of the Act's provisions pertain to development of Delaware's submerged lands. The statute addresses problems related to: the right to drill for and remove minerals; royalties; liens; rentals; drilling record disclosures; bonds; cessation of production; and drilling and exploration operations.

DNREC regulations list five types of projects involving the use of public submerged lands which require State approval: (1) the erection of any structure on such lands; (2) the dredging or filling of such lands; (3) the excavation of any channel, lagoon, turning basin, or ditch on public or private land which will make connection with public submerged lands; (4) the filling of lands adjacent to public submerged lands; and (5) the laying of any pipeline, line for transmission of electricity, or telephone line in public submerged lands.

Erosion and Sediment Control Act

The Erosion and Sediment Control Act (Title 7, <u>Delaware Code</u>, Chapter 40) requires that DNREC develop and coordinate a Comprehensive State Erosion and Sediment Control Program. This program will develop erosion control techniques for different uses under various circumstances (e.g., construction activities and agricultural practices on different soil types, slopes and

proximity to water). Within one year from State adoption of the program (September 1980), soil conservation districts (Delaware political subdivisions) must develop local programs consistent with the State Program. During this one year "interim" period, projects involving more than 20 acres are covered through the State Program. The State can develop the district programs for local implementation, if the districts are unable or unwilling to do so.

Once the local programs are in place, any land disturbing activities

(except for home landscaping, agriculture and forestry practices on lands of

less than six percent slope) require approved erosion control plans before such

activities can be initiated. The Act defines "land disturbing activity" as

"any land change which may result in soil erosion...including...filling,

clearing, grading, excavating and filling of land..."

The Act requires periodic inspections to ensure that distinct plans are being followed and provides for injunctive relief to correct program deficiencies. Normally these inspection responsibilities will be carried out at the local level, but DNREC is required to take over the functions if local districts fail in this respect.

1.3.2 Federal Programs and Legislation

The programs and legislation at the Federal level which have a bearing on the State Critical Areas Plan are listed below.

Coastal Zone Management Act of 1972

Establishing national policies to preserve, protect, develop, and where possible, restore or enhance the Nation's resources of the coastal zone, the 1972 Act provides monetary assistance to states for best use of, and adequate protection for the coastal zone environment.

National Flood Insurance Program

The National Flood Insurance Act of 1968 is administered by the Federal Emergency Management Agency (FEMA). It provides federally subsidized flood insurance at affordable rates to property owners in flood, mudslide (mud flow), or flood-related erosion-prone areas. The major regulations pertinent to the Flood Insurance Program are:

Flood Plain Management, Executive Order No. 11988

Federal agencies are required to recognize significant public values of flood plains and to avoid, to the extent possible, the long and short-term adverse impacts associated with occupancy and modifications of flood plains (and to avoid direct and indirect support of flood plain development wherever there is a practicable alternative).

Flood Disaster Protection Act of 1973

Federal or federally-related financial assistance for acquisition or construction purposes in areas of special flood hazard areas, are required to be protected by flood insurance.

National Flood Insurance Act of 1968

The Act has been partially revised or repealed by sections of the Flood Disaster Protection Act of 1973; refer to previous discussions for Federal requirements.

Marine Protection, Research and Sanctuaries Act of 1972

The Act relates to environmental, aesthetic, recreational and economic values of the marine resources, and other uses of the ocean. Secton 102 of the Act requires that any action including ocean dumping, shall be allowed only after consideration of the effect of the proposed action on aesthetic, recreational and economic values and other uses of the ocean.

Protection of Wetlands, Executive Order No. 11990

Through this Executive Order, the President declared wetlands important national resources warranting specific measures for their preservation.

Fish and Wildife Coordination Act of 1958

The Act requires that the adverse effects on fish and wildlife resources and opportunities for improvement of these resources shall be examined along with other purposes which might be served by water resources development.

The Act was enacted to protect navigation and the navigable capacity of the nation's waters. By a revision of the Act on 18 November 1968, additional factors were included in the Act for any permit applications; these factors included fish and wildlife, conservation, pollution, aesthetics, ecology and the general public interest.

1.3.3 County/Local Programs

River and Harbor Act of 1899

Through Delaware Planning and Zoning enabling legislation found in Titles 9 and 22 of the <u>Delaware Code</u>, provisions are made for county and municipal governments to adopt zoning ordinances and comprehensive development plans.

Zoning ordinances provide for the regulation of: (a) buildings and structures according to their construction and the nature and extent of their use; (b) the size of yards, courts, and other open spaces; (c) density and distribution of community development; and (d) uses for trade, industry, residence, recreation, public activities, soil and water supply conservation, or other similar purposes. All three counties and the majority of incorporated municipalities in the State have adopted ordinances.

Through adopted Comprehensive Development Plans, county and local governments are able to plan for development of the entire area within their jurisdiction or such part as may be deemed advisable. Plans may include such

things as existing and proposed land uses general location and character of downtown areas, waterways, parks and open spaces; public buildings; public utilities; terminals; public housing and other physical facilities, including private as well as public ownership. Adopted Comprehensive Development Plans may be amended regularly or revised and updated as needed. Relative to regional and local critical areas, consideration should be given to using the existing processes mentioned above as effective mechanisms through which Critical Areas Plans can be implemented. For instance, Kent County has adopted its critical areas as an amendment to the County Comprehensive Development Plan.

1.4 Statewide Plan Objectives

As a method of achieving consistency and coordination between the levels of government, and between government and private enterprise, the Statewide Plan is intended to accomplish the following short-term and long-term objectives:

1.4.1 Short-Term Objectives

Short-Term Critical Areas Plan Objectives include:

- 1. Conformance with provision of Senate Bill 358 for preparing Statewide Critical Areas Plan.
- Preparation of critical areas information as an important input to the "Notification, Review and Comment" process established in Senate Bill 358.
- 3. Preparation of a comprehensive statewide critical areas inventory.
- Improvement in State-local coordination and communications regarding preservation and development plans and similar activities.

1.4.2 Long-Term Objectives

Long-Term Critical Areas Plan Objectives include:

- Development on an information base on critical areas which can provide input to numerous State and local planning and action programs.
- Development of effective mechanisms for guiding development actions of more than local concern, which may adversely impact the physical, social and economic resources of Delaware.
- 3. Enhanced visibility and attention given to the State's unique, natural, valued, and otherwise significant resources and facilities.
- 4. Development of critical areas' protection/preservation needs and options that can help guide future refinements in related State legislation and policies.

2.0 CRITICAL AREA CATEGORIES

2.1 Definitions and Broad Categories

This section reviews certain basic terms and concept definitions that are essential to the use of Critical Areas Plan information.

2.1.1 <u>Definition of Critical Areas</u>

Senate Bill 358 defines the critical area as "an area wherein the establishment or maintenance of a viable physical, economic, or social environment is of more than local concern; or the physical, economic or social characteristics of said area are of primary importance or uniquely sensitive, including, but not limited to wetlands, major port facilities, and historic areas". The Senate Bill further states that, "Critical Areas, however, do not include agricultural lands in productive use".

In terms of this Plan, the definition of a critical area can be extended to include:

- -- Areas having or containing a significant impact upon environmental, natural, scientific, cultural, historical or archaeological resources of regional or statewide importance;
- -- Areas significantly affected by, or having a significant effect upon, an existing or proposed major public facility or other area of major investment which is intended to serve substantial numbers of persons beyond the vicinity in which the development is located and which tends to generate substantial development or organization.

This broad critical areas definition covers many areas of physical, environmental, and economic interests, however, it is equally important to refrain from grouping non-related land use issues into this definition.

2.1.2 <u>Definitions of Associated Terms</u>

Related to the above critical areas definition, are the associate terms of "local jurisdiction, of more than local concern, and productive agricultural lands".

A Local Jurisdiction in the State of Delaware means, "the County of New Castle, the County of Kent, the County of Sussex, municipalities within the State, or any other political subdivision of the State, or instrumentality of any political subdivision of the State", as defined in Senate Bill 358.

There are 56 municipalities in the State; 18 in Kent, 13 in New Castle, and 23 in Sussex County, and 2 bi-county municipalities.

Critical Areas of 'more than local concern' means those areas "where uncontrolled or incompatible large scale development" or change in the present uses, "could result in damage to the environment, life or property, where the short or long term public interest is of more than local significance". An extension of this formal Senate Bill 358 definition is: the areas of 'more than local benefit', examples being large public parks or industrial developments whose benefits are likely to extend beyond the boundaries of an individual jurisdiction.

Agricultural Lands in Productive Use, as defined in Senate Bill 358, includes "those lands which are both:

- delineated as 'Prime Farmlands', 'unique farmlands', or 'additional farmlands of Statewide Importance', by the Soil Conservation Service of the U. S. Department of Agriculture on maps entitled, 'Important Farmlands' and dated January 1977 for New Castle and Kent Counties and January 1978, for Sussex County; and
- 2. currently used for the commercial production of livestock, trees or nursery stock, food or fiber."

2.2 Characteristics and Evaluation of Critical Areas

An area or resource location nominated or identified as critical by local jurisdictions, State and federal agencies and interest groups for its inclusion in the Statewide Critical Areas Plan has been evaluated by any or a combination of the following basic characteristics:

- -- The <u>intrinsic value</u> of the resource or area, such as its:
 - -- Uniqueness (the only one of its kind or a particularly outstanding example of its kind)
 - -- Quality of significance,
 - -- Rarity at a specific location, and
 - -- Economic benefits.
- -- <u>Sensitivity</u> or vulnerability of the resource, based on tolerance or intolerance to uncontrolled growth or development that may be incompatible with vital resources.
- -- Immediacy of threats to the resource or area deemed critical, due to potential long-term danger of degradation stemming from development pressures, or the nearby location of urban centers.
- -- Supply and demand for a resource, for which the location of a critical area with respect to centers of demand may make it scarce, although the total stock of this resource is not limiting around the State.
- -- <u>Hazard potential</u> to human activities in or around the resource; where a critical area poses a physical threat to human activities or development; (a flood plain for example).

A critical area which has been proposed at the local or another level for inclusion in the Statewide Critical Areas Plan has been evaluated for its designation as 'critical' beyond local significance using the following factors:

- -- Public Concensus
- -- High Visibility
- -- Broad-based Support
- -- Economic Benefits
- -- Economic Dependence

These factors suggest the orientation of initial plan development efforts toward pulling together all local and regional inputs which have value to Delaware residents.

2.3 Critical Area Categories

The candidate areas and resources which are potentially significant beyond local interests and concerns are identified as 'critical' through the process of evaluation. These areas have been organized into the following four (4) major categories:

- 1. Physical/Natural Areas
- 2. Physical/Other Areas
- 3. Social Areas/Resources
- 4. Economic Areas/Resources

Typical items under these categories are listed in Table 1.1.

Table 1.1 STATEWIDE CRITICAL AREAS CATEGORY LIST

CATEGORY	ITEM	EXAMPLE
PHYSICAL/NATURAL CRITICAL AREAS	Unique natural areas	Vistas, trails, wildlife preserves, conservation areas
	Public beaches	Public access areas to the beaches
	Flood hazard areas Surface water bodies Wetlands/tidal lands	100-Year Flood zones Streams, bays, ponds Banks, salt and fresh marshes, swamps
	Forests & State Parks Aquifers/recharge areas Geologic hazard areas Minerals & geologic	Sources of underground water faults, landslides, rock falls
	features	Mining areas, mineral areas
PHYSICAL/OTHER CRITICAL AREAS	Other recreation sites	County parks, ballfields, marinas
	Waste disposal sites	Landfill sites, sewer treatment plant sites
	Impoundment sites	Dams, dikes, reservoirs, fresh-water wetlands
SOCIAL CRITICAL AREAS	Cultural areas Institutions	Museums, theaters, town centers Hospitals, Schools, public buildings
	Historic/archaeological	Sites and structures, neighborhoods
	sites Communications and public safety facilities	Fire Station, communication facilities
ECONOMIC CRITICAL	Highways & intersections	High volume traffic routes
AREAS	Airports	Approaches, safety and noise zones
·.	Railroads and yards	Freight train routes, yards, stations
	Port facilities .	Navigation channels, spoil disposal sites, anchorages
	Public utilities	Power plants, water supply and sewerage systems
	Industrial sites/other employment centers	Industrial parks
·	Shopping centers	Malls, commercial strips along highway

3.0 CRITICAL AREAS INVENTORY

The Statewide Critical Areas inventory was compiled as the basis for Initial Draft Plan preparation. The inventory steps include: data gathering, presentation formats, selection, evaluations, discussion and presentation as illustrated in Figure 3-1.

3.1 Development and Organization of Input

The data gathering effort for the Statewide Plan included the following preliminary steps:

- Initial presentations of Plan purposes, data needs and development
- Input discussions with county and State agencies and interest groups
- -- Mailing of letters of request for input to local, county, State, federal and regional agencies and other interest groups
- -- Review of comprehensive plans and other related documents for critical areas information
- -- Contacts by phone, with county, State and federal agencies
- -- County-hosted public meeting to assist in local inputs preparation, and
- -- Follow-up with local contacts to refine or arrange inputs

Since the responses from agencies and jurisdictions were initially limited, the course for Plan development was modified to accommodate additional direct interactions with these agencies, jurisdictions and interest groups through open sessions meetings and later individual contacts. An inputs discussions meeting was held on 23 June 1980 at the Delaware Technical and Community College, Dover, which was attended by a number of "358" Participants and interested parties.

In order to provide further assistance to local jurisdictions in the preparation of local Critical Areas Plans and input to the Statewide Plan, local assistance meetings were held at Georgetown (Sussex County) on July 15, at Dover (Kent County) on July 16, and, at New Castle (New Castle County) on July 17, 1980. While attendance at these local-assistance meetings was light, it was found that they were beneficial to those who participated to gain more insight on data needs and formats, as reflected in their input.

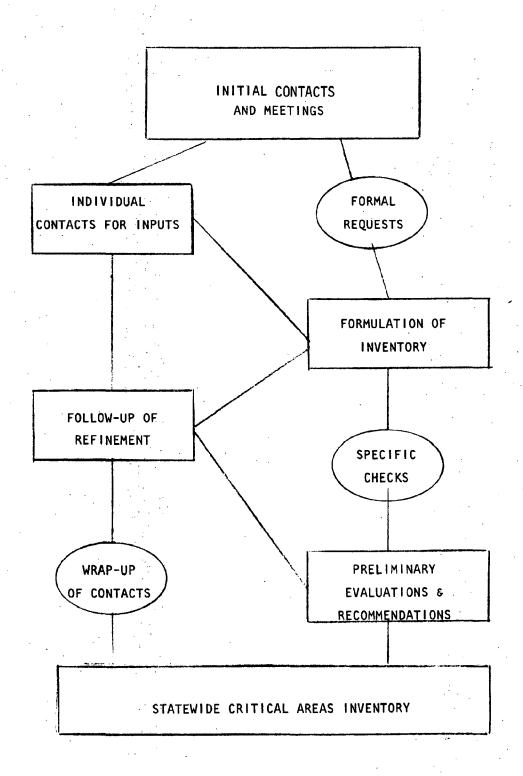
Pursuant to the request from attendees at the June 23 meeting, input received by OMBP and its consultant was compiled, forwarded to each county "358" designee, and was available for reference at the respective County Planning Offices and also at OMBP. The inventory was periodically updated as information was received by OMBP.

As of August 1, 1980, the day after the target date for local inputs, responses from twenty-one (21) out of fifty-six (56) municipalities and the counties were received for inclusion in the Statewide Plan. In order to encourage input actions by those local jurisdictions not having responded by that date, the designated 358 representatives of these jurisdictions were individually contacted. In certain cases, additional follow-up requests for input were sent to the jurisdictions. Continued personal contacts and follow-ups resulted in obtaining input to the Initial Draft Plan from all but five (5) out of the fifty-six (56) local jurisdictions and the three counties.

Local input from each jurisdiction has been reviewed and the areas of "more than local concern" have been identified through a preliminary evaluation procedure, based on criteria developed and utilized in conjunction with the definition and characteristics of critical areas (as presented earlier under Section 2). A copy of the individual inputs, after preliminary evaluation, was returned to respective jurisdictions on October 24, 1980, for their information. The county and local inputs are presented as Appendix A.

FIGURE 3-1

CRITICAL AREAS INVENTORY PREPARATION



Copies of key correspondence to local jurisdictions, agencies and interest groups in reference to the Statewide Critical Areas Plan input are presented as Appendix C.

3.2 Evaluation Criteria and Presentation Format

Data provided by federal, State, county, and local agencies and interest groups as input to the Statewide plan, and other special studies, have been evaluated through a screening process to determine the criticality of these sites and features. The three general criteria resulting from items in Section 2.2, and used for identifying critical conditions, are:

1. Economic Benefits

A critical area can be based on a unique need or potential for economic development. Such areas include:

- -- Areas experiencing a loss or reduction in productivity of food, fiber, minerals or industrial plant;
- -- Areas of public investment, enabling the State to guide desirable development or even to induce specific projects as strategic points, such as highway interchanges;
- -- Areas with a unique potential for development, such as sites for reservoirs, port facilities, or electric generating plants.

2. Scarcity

A resource is scarce due to its fixed supply relative to the demand for its service or use. The quantity of resources available is limited because its total stock cannot be increased and no substitute exists, yet the demand may grow. Conditions of scarcity that may be considered as critical include:

- The quality of rarity, in which the resource is the only one of its kind or is a particularly outstanding example of its kind.
- -- The quality of significance, in which a resource is recognized as necessary by a substantial segment of the State's population.
- -- Distribution of the resource, in which the location is a resource with respect to centers of demand may make it scarce.

3. Sensitivity

A critical area can be based on sensitivity or tolerance to uncontrolled growth, or developments that are incompatible with its vital characteristics. Increasing demands for a resource may imply potential depletion or degradation. This potential should be objectively evaluated in terms of the capacity of the resource to support more intensive use, and the parameters of degradation. This sensitivity may be a critical issue where:

- An increase in the intensity of use will degrade or destroy the unique qualities of an area or its resources; in a wildlife area, as the number of visitors increase, there will occur, at some point, a change in certain valued characteristics, such as solitude, or wildlife that is intolerant of humans; likewise, in an agricultural community, the development of central sewer and water systems to serve residential developments often leads to pressures for further development which eventually displaces the agriculture and the rural character of the community;
- A change to more intensive activities will impair basic natural processes, for example, development may affect the hydrological cycle of an area to the extent that the water table drops significantly, which can subsequently affect vegetation, microclimate, water supplies, and building foundations.

Each of the inputs provided by local jurisdictions, counties, State and federal agencies, and interest groups for inclusion in the Statewide Critical Areas Plan, has been evaluated for its specific designation as "critical to more than local residents and government, and of more than local concern," by reviewing the specific situation and using the following evaluation questions (criteria):

- -- Is there strong <u>public concensus</u> on the inherent value of the area (resource)?
- -- Is the area (resource) highly 'visible, and well known throughout the region and (preferably) the State of Delaware?

- -- Does the public and the local/county/State governmental agencies strongly support its selection as a State critical area?
- -- Does the area (resource) generate or represent clearly recognizable economic benefits to more than one jurisdiction or locality?
- -- Is the existence of the community and region heavily <u>dependent</u> on the economic benefit generated by the area (resource)?

Areas clearly passing one or more of the above questions have been tentatively identified as "of more than local concern", and are recommended for inclusion in the Statewide Plan.

The critical areas identified as "of more than local concern" are tabulated under each item of the Statewide Critical Areas Category List given in Section 2.3. The presentation of these critical areas under each item is in the following order referring to their location and/or significance:

- -- Statewide Areas
- -- New Castle County Areas
- -- Kent County Areas
- -- Sussex County Areas

The source(s) of information, or the agencies who have provided the input, are identified under the last column in each Table in parenthesis; refer to the Glossary of Abbreviations for source(s) identification.

3.3 Statewide Critical Areas Inventory

The following is a compilation of information gathered on Statewide Critical Areas Inventory.

RECOMMENDED PHYSICAL/NATURAL CRITICAL AREAS

(PRELIMINARY)

3.3.1 Physical/Natural Critical Areas

Natural areas are locations in which natural processes still predominate; where fluctuations in plant and animal life are allowed free play and human intervention is minimal. These locations have been spared from man's development of land, because of a specific natural value or resource (and conservation efforts), or having simply been passed by for better land. These areas contain certain features of unique or typically natural occurrence, in their setting, types of plant and animal life, animal-plant community, or in geological, archaeological, aesthetic features, or combinations thereof. Most natural areas are documented in the Study Reports - "Critical Natural Areas: Kent and Sussex Counties" by the Delaware Nature Education Society (DNES), and "New Castle County Natural Areas Study" by DNES.

These "areas are irreplaceable as laboratories for scientific research; as reservoirs of natural materials; as habitats for plant and animal species, and biotic communities whose diversity enriches the meaning and enjoyment of human life; as living museums where people may observe natural biotic and environmental systems of the earth and the interdependence of all forms of life; and as reminders of the vital dependence of the health of the human community upon the health of the natural communities of which it is an inseparable part". 1

If those areas are maintained in their natural state, the State's population can "retain the opportunity to maintain their close contact with such living communities and environmental systems of the earth and to benefit from the scientific, educational, aesthetic, recreational, and cultural values possessed by such areas". 1

Delaware Coastal Management Program and Final Environmental Impact Statement, 1980.

Major sources of information used for compiling the preliminary list of physical/natural critical areas include:

- Delaware Nature Education Society and its recent study report: Delaware's Outstanding Natural Areas and Their Preservation, by Lorraine M. Fleming (1978);
- -- Delaware State Division of Natural Resources and Environmental Control (DNREC) and its various divisions;
- -- Delaware State Coastal Management Program (CMP) and its various publications;
- -- Delaware State Comprehensive Outdoor Recreation Plan (SCORP);
- -- U. S. Department of the Interior, Heritage Conservation and Recreational Services (HCRS); and
- -- Delmarva Ornithological Society.

Items listed under the physical/natural critical areas category include:

Unique Natural Areas
Public Beaches
Flood Hazard Areas
Surface Water Bodies
Wetlands/Tidal Lands
Forests and State Parks
Aquifers/Recharge Areas
Geologic Hazard Areas
Minerals and Geologic Features

Brief narration of, and the recommended critical areas under these items are presented below:

Unique Natural Areas

This critical area item includes vistas, trails, wildlife preserves, conservation areas and similar unique natural features least disturbed by land development activities. Sites and features of unique characteristics, and whose ownership or management rests, at least partially, with the State of Delaware, federal government or the counties which are listed in Table 3-1. The sites and features (both public and private) are considered to be critical from their existing or planned uses, as noted by the federal agencies, State agencies and/or interest groups (e.g. DOS) in their feasibility studies. Large

parcels of private lands of more than 100 acres in land area, which are currently found in their unique natural setting, are also listed in Table 3-1.

A map showing the general location of major unique critical natural areas and vistas in Delaware is presented here in Figure 3-2. The specific locations and characteristics of these (and other natural sites and features) are provided in the DNES Study: Delaware's Outstanding Natural Areas and Their Preservation (1978).

Table 3-1 RECOMMENDED UNIQUE NATURAL AREAS

	•			
Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type Ownership		Comments/ Source(s)
		Public	Private	
Selbourne-Flint Woods (Upland Area)	New Castle County, on Twaddell Mill Road; 165 acres		. X	Largest acreage of superior old growth hardwoods in Delaware (DNES), (DNREC/OHP&R)
Tulip Tree Woods Old Fields and Woods to Brandy- wine Creek	New Castle County, adjacent to Thompson Bridge Road; 1,500 acres; Part of Brandywine Creek State Park	x		Unique habitat and finest example of old growth tulip trees in the State (DNES), (DOS)
The Black Woods- White's Woods	New Castle County, along the eastern bank of Brandywine Creek; 170 acres		X	Splendid forests, virtually free of man-made disturb- ances (DNES)
Soda House Woods	New Castle County, south of Rockland Road adjacent to Brandywine Creek; 25 acres; managed by the Eleutherian Mills-Hagley Foundation		X	A defined natural area and surrounding property (DNREC/OHP&R), (DNES)
Red Clay Reservation (portions of)	New Castle County, two tracts of 105 and 100 acres each, separated by a distance of a half mile along Barley Mill Road		x	Ideally suited for education and research experiences in ecology, and many facets of biology and geology (DNES)
Alapocas Woods	New Castle County, the defined natural area of this Wilmington City Park is leased by the County Parks and Recreation Department; and a small portion under private ownership; 110 acres	x	x	"Protected wood- lands with undis- turbed natural herbaceous flora" (DNES), (DOS)
Bringhurst Woods	New Castle County; located adjacent to the Bringhurst Woods Park; part of this 26 acres of refreshing green spot is owned by the City of Wil- mington	X	. X	Habitat for rare, threatened and endangered plant and animal species (DNES)

Table 3-1 RECOMMENDED UNIQUE NATURAL AREAS

Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type Ownership		Comments/ Source(s)
		Public	Private	
White Clay Creek	New Castle County; unspoiled water- way diverse flora and fauna, including rare and endangered species; located between Pennsylvania State line and north- ern city limit of Newark	X	X	Potential for nomina- tion to the National Natural Landmarks Programs (DNES), (DOS), (USDI/HCRS)
Owl Trail and Broad-Wing Trail Woods	New Castle County; this upland area of 28 acres is being recommended to the State Division of Parks and Recreation for purchase by the State for incorporation into the existing Walter S. Carpenter, Jr. State Park		x	(DNES), (DOS)
Ramsey Run	New Castle County; in the Brandywine Valley north of Rockland; all but the northeastern section of this 50 acre area is included within a suggested 2,400 acre Brandywine Cree State Park Preserve, in a study for the State Division of Parks and Recreation		x	(DNES)
Alfred I. DuPont Institute Woods	New Castle County, north side of Alapocas Road; 100 acres		X	Uniquely protected old growth forest; deer bedding site-wildlife preservation (DNES), (DOS)
Whitely Farms	New Castle County, two tracts total- ling 170 acres; used as game lands, one along Road 53 and the other near Curtis Mill Road		х	Area where lower piedmont habitat is managed for maximum production of game wildlife species; heaviest deer concentrations in Delaware(DNES), (DOS)
Pea Patch Island Heronry	New Castle County, nesting grounds for nine different species of birds; 90 acres	X		Unique breeding area of national significance; probably the largest heronry in the northeastern U. S.

(DNES), (DOS)

Table 3-1 RECOMMENDED UNIQUE NATURAL AREAS

·	•		
Name of Site(s)	Brief Description	Type of	Comments/
or Area(s)	(Location, size, etc.)	Owner-	Source(s)
		ship	
			•
		i. te	
	· ·	li va	
	·.	Public Private	
White Clay Creek	New Castle County; the creek and its		Only remaining undev-
Valley	associated watershed running from	••	eloped piedmont water-
	the Pennsylvania-Delaware State		shed in Delaware; the
	line to the Curtis Mill Dam in		area provides the
	Newark; a unique variation of	•	best quality trout
	flora and fauna are found in the		fishing in Delaware
	valley	•	on a put and take
			basis; the valley
			provides excellent
			out door recreation
			(DNREC/DFW), (DNES)
	44 Te		,
Moses Rock Area	New Castle County; outstanding	X	(DNES)
	vegetation and topographic charac-		
	ter; this 80 acre land is included		
	as part of the 2,400 acre Brandy-		
	wine Creek State Park Preserve in		
	a study for the State Division of		· ·
	Parks and Recreation		
•			
Steep Slope,	New Castle County; "steep wooded	Х.	(DNES), (DOS)
Woodlawn	rocky hills", with old growth	·	
Forest	forestation; 130 acres		
- 1 61	No. Comble Country and Indeed	×	(DATEC)
Red Clay	New Castle County; secluded	Zi,	(DNES)
Ravine	wooded valley with little human		•
•	disturbance; unique habitat; 90		
	acres; a small portion is part of		
	the Red Clay Reservation		
Tvahout	New Castle County; among several	x	Geological and
Tyabout Carolina	hundred in number, covering an	44	biological enigma
Bay	area of 12 acres; Tyabout Carolina		(DNES), (USDI/
nal	Bay is the largest one (1 acre)		HCRS)
	located in Blackbird State Forest;	•	
•	Carolina Bays are being considered	•	
·	for National Natural Landmarks	F	
	Program Designation		•
•			

Table 3-1 RECOMMENDED UNIQUE NATURAL AREAS

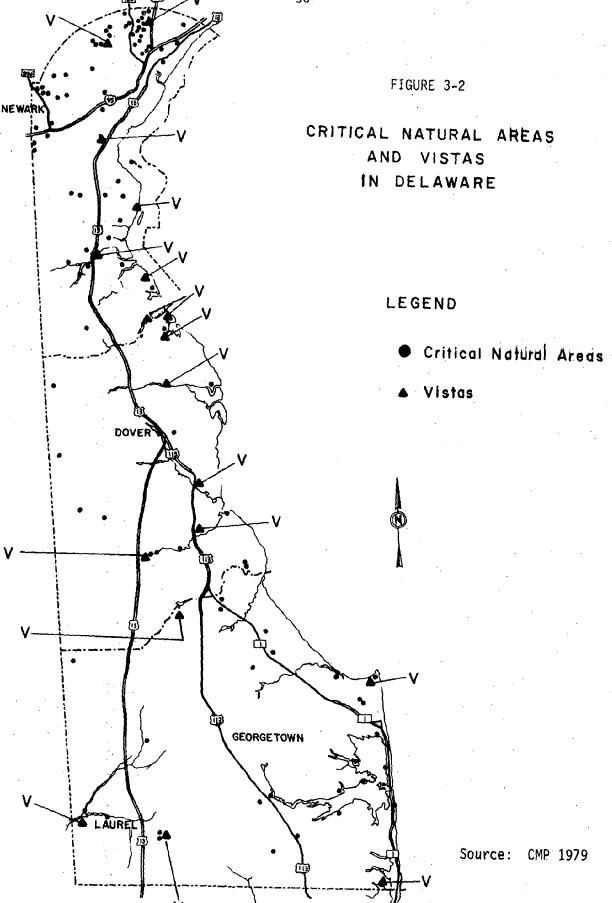
					•
Name of S	• •	Brief Description (Location, size, etc.)	Typo Owno shi		Comments/ Source(s)
			Public	Private	
Delaware College		Kent County; habitat for rare threatened or endangered plant and animal species; principally located on Delaware State College Campus; 76.0 acres	X	X	Convenient ecological study site (DNES), (KC)
Woodland Wildlife		Kent County, containing high quality marshes, a rare and win- some wildflower, and tidal creeks, and the cyclic exposure and inunda- tion of mudflats, 1.580 acres	X	X .	The area has been nominated for designation as a National Natural Landmark (DNES), (USDI/HCRS), (DOS), (KC)
Bombay H	ook ·	Kent County, mostly unaltered portions of an intensively managed wildlife refuge; 6,000 acres	x		Remote cordgrass is- lands and nesting Balc Eagles under the U.S. Department of Interio. (DNES), (DOS), (KC)
Norman G Wilder W life Are	ild-	Kent County, two parcels totalling 36 acres of exceptional quality wildlife sanctuary	X		Area containing luxuriant club moss and mature white oaks (DNES), (KC)
Little C Wildlife		<pre>Kent County; fresh and salt marsh - mud flats; 3,897 acres</pre>	х		Feeding area for migrating birds (DOS)
Broad Cr and Nant River an associat wetlands	icoke d ed	Sussex County; spawning runs of striped bass, American shad, herring, white perch and other anadromous species being distrubed by recent residential development resulting in changes in shoreline and wetland characteristics; large mouth bass thrive in these waters	x	X	It was an unspoiled river valley segment until recently; water quality and fishery habitats should be protected from bulk-heading, dredging and filling, in order to save the important commercial and recreational species on the Nanticoke River; protection should be provided for natural shoreline vegetation (DNREC/DFW), (DNES)

Table 3-1 RECOMMENDED UNIQUE NATURAL AREAS

Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Owner- ship	Comments/ Source(s)
·		Public Private	
Prime Hook Drainage Area	Sussex County, a large fresh water swamp with its associate streams and ponds located east of Milton; 1,200 acres, most of which is owned by the U. S. Fish and Wildlife Service	хх	It is a unique water- shed area providing excellent habitat for for waterfowl, deer small and freshwater fish; needs new water control structures to improve the quality of the marsh (DNREC/DFW), (DNES)
Shoreline of Slaughter Beach	Sussex County, the 3 mile long curved shoreline	х х	SC-ToSB
Beach Plum Island	Sussex County, a narrow, thin washover barrier of 120 acres	x	Barrier beach of visual beauty and ecological diversity, owned by the City of Lewes (DNES)
Cape Henlopen (to Rehoboth)	Sussex County, a natural area of great diversity, a rapidly accreting spit, a large migrating sand dune and an eroding shoreline; 2,300 acres	х х	Superb natural features of national significance (DNES), (DNREC/DFW)
Angola Neck	Sussex County, spectacular views over Herring Creek and Rehoboth Bay, one of the finest stands of loblolly pine; 480 acres	X	Vistas, and stately pines (DNES)
Bay Farm	Sussex County, highly attractive, extensive, mature loblolly pine stand, which requires conservation due to the scarcity of such stands in the State; 170 acres	X .	The most extensive stand of loblolly pine in Delaware (DNES)

Table 3-1 RECOMMENDED UNIQUE NATURAL AREAS

Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Owner- ship	Comments/ Source(s)
		Public Private	
Broad Creek- Laurel to Phillips Landing	Sussex County, visually and bio- logically exciting natural area with locations of rare and endan- gered box huckleberry; 845 acres	х х	Picturesque wooded islands and threatened plant species (DNES)
Trussum Pond	Sussex County, extensive growth of flooded bald cypress; 180 acres	x	Most picturesque of Delaware's impoundments; still waters reflecting bald cypress (DNES)
Assawoman Wildlife Area	Sussex County; mixed woods, ponds and marsh of 1,500 acres	X	Breeding and wintering area (DOS)
Primehook National Wild- life Refuge	Sussex County; marsh, pond, woods and fields of total 10,700 acres	x x	Invaluable habitat, breeding and winter area (DOS)
False Cape	Sussex County; beginning at the north end of Ocean Village and running north to the south end of Cotton Patch Hills, a distance of 1.4 miles, containing 156 acres of fastlands and 200 acres of wetlands	X	Undeveloped barrier islands segment, only notable natural topographic feature between Cape Henlopen and the Delaware-Maryland State line recreation resource (SOSD), (DOS), (DNES)
Woods, Delaware State Hospital for the Mentally Retarded	Sussex County; pleasant wooded "peninsula", semi-surrounded by the upper reaches of Millsboro Pond and the narrow wooded swamp of Vines Branch; principally in State ownership; this attractive wooded knoll covers 65 acres	х х	(DNES)
State Wildlife Areas	Statewide; the State owns the major wildlife areas, comprising of over 30,000 acres; important recreational areas, most of which are located in the coastal zone	x	State wildlife areas are an important land bank of wildlife habitat for future generations (DNREC/DFW)



Public Beaches

Delaware's Atlantic barrier beach is the State's most important and heavily utilized outdoor recreational resource. The narrow strips of land are made up of unconsolidated material, extending parallel to the coast and often separated from mainland by a body of resh, brackish, or saltwater or a marsh. The State's sandy beaches occur intermittently along the Delaware Bay from Augustine Beach to Bowers and continuously from there along the Bay and Atlantic Ocean to the Delaware-Maryland Border.

The proximity of these high quality beaches to the Washington, Baltimore, and Philadelphia metropolitan areas make the Delaware shore areas a resource of national significance, in addition to being important to the State's residents and economy. On an average summer weekend 70 percent of the visitors to the Sussex County Coastal Region are from out-of-state. The beaches, dunes and shoreline are areas of highly dynamic, yet complex natures, and are aesthetically appealing and sensitive to intense development. These scarce and unique natural resources, therefore, are recommended as Statewide critical areas.

The Delaware Coastal Management Program (CMP) and the State Comprehensive Outdoor Recreation Plan (SCORP) are the major sources of information or Delaware's beaches and shorelines. A recent CMP Study (Final Environmental Impact Statement, EIS 1980) identifies public access areas to the beaches as also of critical concern. The CMP Study states that: "the supply and demand for access to Delaware's public beaches and other shorelines shall be studied periodically through the Statewide Comprehensive Outdoor Recreation Planning Process (SCORP...". Figure 1 of Section 5.A.2 of the CMP-EIS Report locates publicly owned or managed lands provide access to Delaware tidal waters).

Specific local concerns for public beach protection, as provided by local jurisdiction inputs, are presented in Table 3-2. The extent of Delaware's beach areas is shown in Figure 3-3.

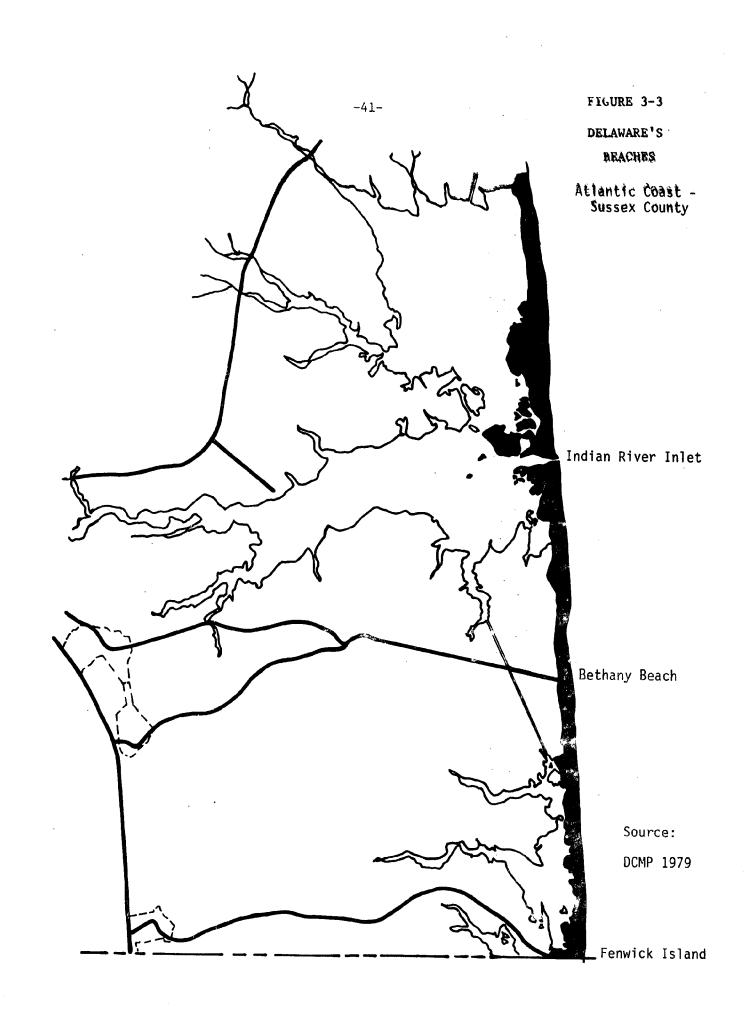
Table 3-2

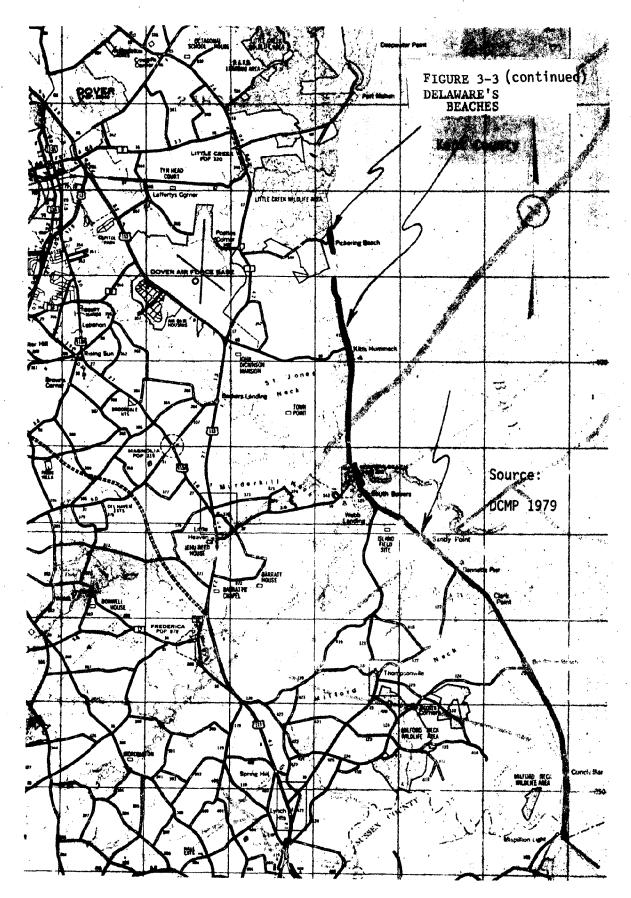
RECOMMENDED PUBLIC BEACHES

Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type Owne shir	er-	Comments/ Source(s)
		Public	Private	
Beaches, dunes and shoreline	Statewide; Pickering Beach to Delaware/Maryland line at Fenwick Island, extending from the mean high water line up to 1,000 feet landward in width (Delaware Bay Coast - 38 miles, Atlantic Coast - 24 miles, Total 62 miles, See Figure 3-3); produce economic benefits through employment, income and tax revenues related to tourism	х	х	Under the Statewide Beach Preservation Program; these areas of highly dynamic yet fragile nature, are sensitive to uncontrolled development and are scarce and unique (DNREC)
Main Beach in Bethany Beach	Sussex County; the Atlantic beach area needing rebuilding and maintenance of the groins	, x	X	(SC-TBB)
Beachfront areas to the Bethany Beach	Sussex County, the proposed high density development beyond the town's jurisdiction will impact on the character of the beachfront	X	x	(SC-TBB)
Fenwick Island Ocean Beach	Sussex County; a recreational area a mile long along the ocean; also absorbs energy from storms	x		(SC-TFI)
Fenwick Island Sand Dune	Sussex County; a mile along the ocean providing protection from storms	X		(SC-TFI)
Beach in Henlopen Acres	Sussex County; beach fronting on the Atlantic Ocean; 5 acres		x	(SC-THA)
Lewes Beach	Sussex County; recreation resource; also it is flood hazard area	X .		(SC-CoL)
Rehoboth Beach area, and environs	Sussex County; beach and waters of the Atlantic Ocean; the City is a continuous increase in intensity of use	X	·	Damage or pollution of the beach area would be catastrophic to the City's economy (SC-CRB)

Table 3-2 RECOMMENDED PUBLIC BEACHES

Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Owner- ship		Comments/ Source(s)	
		Public	Private		
Main beach in Slaughter Beach	Sussex County; 3 mile long and 150 feet wide resource for recreational enjoyment	,X	X	(SC-ToSB)	
Town beach in South Bethany	Sussex County; entire beach from Middlesex to the State lands	x		(SC-TSB)	
Beaches of Sussex County	Sussex County; namely: all public beach area along the Atlantic Ocean				
	and Delaware Bay West	X	X	(SC)	
	Cape Henlopen State Park, and	X			
	Delaware Seashore State Park	X			





Flood Hazard Areas

Flood hazard areas, also referred to as flood plains, are lands that are highly prone to flooding, posing potentially serious threats to buildings and public welfare. These low-lying, streamside and/or shoreline areas are periodically inundated by water that cannot be contained within the stream channel. The delineation of the flood plain area is generally estimated in terms of the probability that the area will be inundated by flood waters. The 100-year flood plain, the commonly used measure to describe a flood hazard area, describes the area flooded once every one hundred years, or the area with a one-in-a-hundred probability of being inundated during any given year; (certain protection measures for beachfront structures are based on 500-year flooding conditions).

The Federal Emergency and Management Agency (FEMA), responsible for implementing the National Flood Insurance Program, is involved with the task of identifying flood hazard areas within municipalities and counties in Delaware. It is important that public agencies and private individuals recognize the significant public values (and threats) of flood plains. The objective is to avoid, to the extent possible, the long and short-term adverse impacts associated with occupancy or modification of flood plains, and also to avoid direct and indirect support of flood plain development wherever there is a practicable alternative; this is the intent of the Flood Plain Management, Executive Order No. 11988.

There are forty-two communities in Delaware which are identified as having flood hazard areas. Communities participating in the National Flood Insurance Program are listed in Table 3-3. Specific flood insurance studies and maps

¹ Source: National Flood Insurance Program Community Status Book, Delaware.

containing information on the 100-year flood plain, 100-year flood elevations, the floodway, and coastal high hazard areas are available at the respective community's office, or can be obtained from the Federal Insurance Administration office in Washington, D.C.

Specific flood hazard areas of critical concern, as identified by a few local jurisdictions are listed in Table 3-4.

FEDERAL EMERGENCY MANAGEMENT AGENCY FEDERAL INSURANCE ADMINISTRATION COMMUNITIES PARTICIPATING IN THE NATIONAL FLOOD INSURANCE PROGRAM AS OF JAN 31, 1980 DELAWARE

	· · · · · · · · · · · · · · · · · · ·			
		•	•	DATE OF
			DATE OF ENTRY	CURRENT
COMMUNITY			EMERGENCY OR	EFFECTIVE MAP
NUMBER	CAMMINITY	NAME	BEOLU AD DOGO	CEPTOTIVE IMP
HOUBER	COMMUNITY	MARIE	REGULAR PROG.	(OR MAP INDEX)
105083#	BETHANY BEACH, TOWN OF	SUSSEX COUNTY	APR 06, 1973(R) MAR 10, 1978
100055	BETHEL, TOWN OF	SUSSEX COUNTY	JAN 22. 1976	JAN 17, 1975
100031A	BLADES. TOWN OF	SUSSEX COUNTY	MAY 30 1975	IAN 16 1978
100003	DAUEDS TOUN OF	KENT COUNTY	1121 50, 1975	10, 1976
100002	COWERS, TOWN OF	KENI COUNTY	JUN 13, 1974	AUG 09, 1974
100032B	BRIDGEVILLE, IOWN OF	SUSSEX COUNTY	JAN 07, 1977(R) JAN 07, 1977
100003A	CAMDEN, TOWN OF	KENT COUNTY	MAR 18, 1975	DEC 12, 1975
100004B	CHESWOLD, TOWN OF	KENT COUNTY	JAN 07 1977(R) JAN 07 1977
100005#	CLAYTON TOWN OF	KENT COUNTY	UN 01 1077(P	11111 01 1077
100000#	DAGGREDS TOUN SE	CHOCKY OF WITH	30H 01, 1977th.	/ JUN 01, 19//
100033A	DAGSBORD, TOWN OF	SUSSEX COUNTY	JUL 09, 1975	DEC 19, 1975
100022B	DELAWARE CITY, CITY OF	NEW CASTLE COUNTY	FEB 16, 1977(R)) FEB 16, 1977
100006#	DOVER, CITY OF	KENT COUNTY	JUL 24, 1975	JUL 22. 1977
100023A	FLISHERE TOWN OF	NEW CASTLE COUNTY	DEC 31 1976(R) DEC 31 1976
100008B	EELTAN TAUN AF	KENT COUNTY	IAN 07 1077/P	1 144 07 1077
1000000	FELTON, TOWN OF	ALIANCE AND THE	3AN 07, 1977(R.) JAN 07, 1977
1050848	PENWICK ISLAND, TOWN OF	SUSSEA COUNTY	MAR 23, 19/3(R)) SEP 26, 1975
100037A	FRANKFORD, TOWN OF	SUSSEX COUNTY .	JUL 17, 1975	DEC 12, 1975
100009A	FREDERICA, TOWN OF	KENT COUNTY	APR 02. 1975	DEC 26. 1975
100039B	GREENWOOD, TOWN OF	SUSSEX COUNTY	FEB 24 1978/P) FFR 24 1978
1000105	UADOINGTAN CITY AE	VENT CAUNTY	11N 01 1070(N	, 100 ET, 1310
100010#	MARKINGTON, CITY OF	KENI COUNTY	JUN 01, 1977(K.) JUN UI, 19//
100053B	MENLOPEN ACKES, TOWN OF	SUSSEX COUNTY	AUG 15, 1978(R) AUG 15, 1975
100001A	KENT COUNTY *	KENT COUNTY	MAR 15, 1978(R) MAR 15, 1978
100040	LAUREL, TOWN OF	SUSSEX COUNTY	APR 02 1975	JUN 24 1977 4
100014B	LEIPEIC TOUN OF	KENT COUNTY	SEP 20 1078/P	SER 20 1078
1000146	LEIFGIC, TOWN OF	CHICAGO CONTI	3EF 29, 1970(R	/ SEF 29, 1970
100041B	LEWES, CITY OF	SUSSEX COUNTY	MAR 15, 1977(K) MAK 15, 19//
100015#	LITTLE CREEK, TOWN OF	KENT COUNTY	JAN 17, 1979(R) JAN 17, 1979
100024#	MIDDLETOWN, TOWN OF	NEW CASTLE COUNTY	JAN 07, 1977(R) JUN 01. 1977
100042C	MILEGRO. CITY OF	KENT COUNTY	JUN 01 1977(R) JBI 14 1978
1000420	111210110, 0111 0.	RIRCEY CHINTY		, 002 14, 1570
		SUSSEX COUNTY		
100043B	MILLSBORD, TOWN OF	SUSSEX COUNTY	SEP 01, 1978(R) SEP 01, 1978
100044A	MILLVILLE, TOWN OF	SUSSEX COUNTY	OCT 02, 1978	DEC 12, 1975
100045B	MILTON, TOWN OF	SUSSEX COUNTY	AUG 01. 1978(R) AUG 01, 1978
105085A	NEU CASTI E COUNTY	NEW CASTLE COUNTY	DEC 03 1971(R) DEC 26 1975
1000000	NEW CACTLE CLTV AE	NEW CASTLE COUNTY	ABB 80 1074(0	. 050 00, 1075
100026A	NEW CASILE, CITY OF	NEW CASILE COUNTY	MFR 29, 1974(K) DEC 20, 1970
100025A	NEWARK, CITY OF	NEW CASTLE COUNTY	APR 29, 1974(R) DEC 26, 1975
100054B	NEWPORT, TOWN OF	NEW CASTLE COUNTY	JUN 15, 1978(R) JUN 15, 1978
100046A	CCEAN VIEW. TOWN OF	SUSSEX COUNTY	JUL 01, 1975	DEC 12. 1975
105086A	DEUGRATH MEACH CITY OF	SUSSEY COUNTY	MAR 30 1973/P) MAP 12 1076
100000	REMODOTA DENGLA GET	CUCCEY OF WITY) TIAN 12, 1070
100048#	SEAFORD, CITY OF	SUSSEX COUNTY	FEB UI, 1979(R) FEB 01, 1979
100050	SLAUGHTER BEACH, TOWN OF	SUSSEX COUNTY	MAY 28, 1974	NOV 15, 1974
1 0001 7D	Smyrna, town of	KENT COUNTY	JUN 91, 1977(R) MAR 10, 1978
1000518	SOUTH BETHANY, TOWN OF	SUSSEX COUNTY	OCT 06, 1976(R) OCT 06, 1976
	•		207 00 1070/0	OF 1978
100029Å	SUSSEX COUNTY #	SUSSEX COUNTY	OCT 05, 1976(K	1 001 00, 1970
1000288	WILMINGTON CITY OF	NEW CASTLE COUNTY	MAY 02, 1977(R) MAY 02, 19//
1000200	WILLIAM THE TOUR SE	KENT COUNTY	MAR 20, 1975	DEC 26, 1975
100020A	WYOMING, TOWN OF	KENI COONTI		•
	DETHANY BEACH, TOWN OF BETHEL, TOWN OF BLADES, TOWN OF BLADES, TOWN OF BLOWERS, TOWN OF BRIDGEVILLE, TOWN OF CRAMDEN, TOWN OF CHESWOLD, TOWN OF CHESWOLD, TOWN OF CHESWOLD, TOWN OF DAGSBORD, TOWN OF DELAWARE CITY, CITY OF ELSMERE, TOWN OF FELTON, TOWN OF FENWICK ISLAND, TOWN OF FRANKFORD, TOWN OF FREDERICA, TOWN OF HARRINGTON, CITY OF HENLOPEN ACRES, TOWN OF KENT COUNTY * LAUREL, TOWN OF LEIPSIC, TOWN OF LITTLE CREEK, TOWN OF MILLSBURG, TOWN OF SEAFORD, CITY OF SEAFORD, CITY OF SLAUGHTER BEACH, TOWN OF SHYRNA, TOWN OF SOUTH BETHANY, TOWN OF SUSSEX COUNTY ** WILMINGTON, CITY OF WYOMING, TOWN OF		42	1
TOTAL IN	THE FLOOD PROGRAM		42	i
	THE REGULAR PROGRAM		29	
IDIAL IN	THE REGOLAR PROGRAM			i
		THO NO		į
TOTAL IN	THE REGULAR PROGRAM BUT HAV	ING NO		ļ
SPECIAL	FLOOD HAZARD AREA		0	ļ
TOTAL IN	REGULAR PROGRAM BUT DESIGNA	TED		į.
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	THE PROPERTY OF THE PARTY OF TH		13	
TOTAL IN	EMERGENCY PROGRAM		. –	
				•
TOTAL IN	EMERGENCY PROGRAM WITH THE			•
MATARR	AREA IDENTIFIED		13	
IMEDING	NAME OF TAXABLE PARTY.		•	

⁽R) - INDICATES ENTRY IN REGULAR PROGRAM

NSFHA - NO SPECIAL FLOOD HAZARD AREA (NON-FLOOD PRONE COMMUNITY)

- UNINCORPORATED AREAS ONLY

ALL OTHER CODES OR SYMBOLS ARE EXPLAINED ON PAGE 2 OF THIS BOOK

FOR FURTHER INFORMATION CONTACT FIA AT (TOLL FREE NUMBER) 800-424-8872/3

Table 3-4 RECOMMENDED FLOOD HAZARD AREAS

Name of Site(s) or Area(s)	Brief Description (Location, Size, etc.)	Type of Owner- ship	Comments/ Source(s)
,	·	Public Private	
Washington Street	New Castle County; during high water conditions downtown area not passable; 1 acre	X	Impact on CBD (NCC-DC)
Town of Elsmere	New Castle County; entire town of 1.1 square mile area	X	(NCC-ToE)
Newark Open Floodway Districts	New Castle County; Christina Creek and White Clay Creek Open Flood- way Districts	x x	(NCC-Con)
Newport Industrial Park	New Castle County; needed for maintenance	X	(NCC-Ton)
Downtown Milton	Sussex County; mostly a flooded area; if heavy flooding ever developed, the entire business area could be hurt	х х	(SC-TM)
Flood Plain areas in Laurel	Sussex County; area on each side of Broad Creek, Little Creek and others as identified on the flood zone map	x	(SC-ToL)
Flood hazard zones in Slaughter Beach	Sussex County; 3 miles long, extending from the bay on the east to the west bank of Cedar Creek	х х	(SC-ToSB)

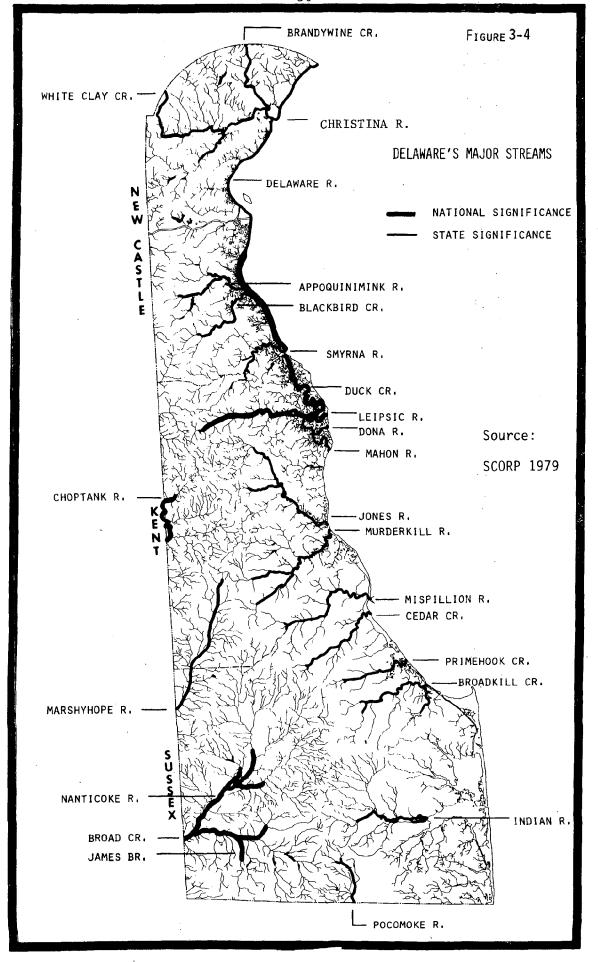
Surface Water Bodies

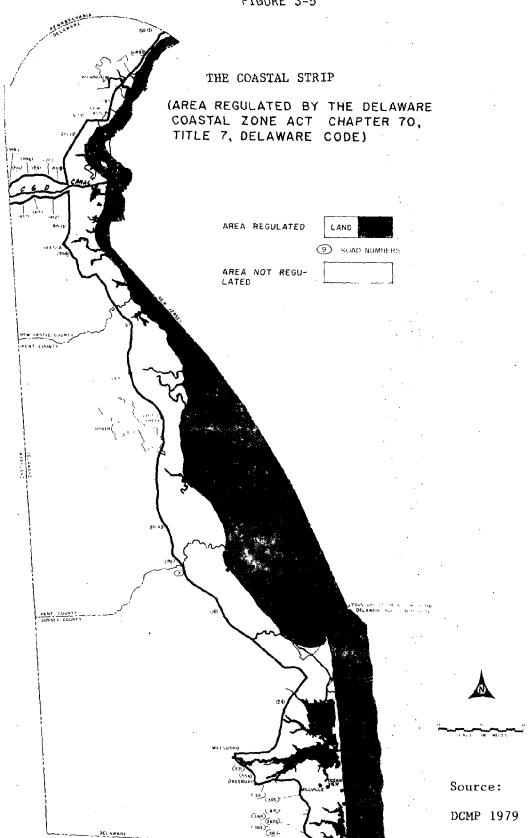
Delaware has an extensive network of streams and some 60 freshwater ponds. These streams range from the high velocity rapids of the Piedmont to the sluggish currents of the Coastal Plain. All freshwater ponds in Delaware were originated as man-made mill sites; the land in Delaware is unglaciated and originally contained few ponds. The State's eastern border is entirely in tidal waters. Most of Delaware is near Coastal waters, and no part of the State is farther than eight miles from tidal water.

The extent of Delaware's Coastal Management Program itself underscores the significance of coastal water to Delaware. The CMP policies are aimed at ensuring that: the water resources are employed for beneficial uses, to protect beneficial uses, and to assure adequate water resources for the future; water resources shall be protected from pollution which may threaten the safety and health of the general public; and the coastal resources of the State shall be protected and conserved to assure continued availability for public recreational purposes and for the conservation of aquatic life and wildlife.

There are 1,100 linear miles of perennial streams distributed across 30 major watersheds in Delaware; these streams are shown in Figure 3-4, taken from the SCORP Report. Also, the "Coastal Strip", which is the strip of land and water located between Delaware's seaward territorial limits and a landward boundary delimited by a series of roads and highways (Figure 3-5, from the CMP-EIS Report) locates the extent of coastal waters of Delaware, and represents part of the area regulated by the Delaware Coastal Zone Act. In addition, the Heritage Conservation and Recreation Service of the U. S. Department of the Interior has identified a number of State rivers meeting the minimum criteria for further study and/or potential inclusion into the National Wild and Scenic Rivers System.

The surface water bodies, such as streams, ponds and rivers, identified by federal, State and local agencies and interest groups for inclusion into the Statewide Critical Areas Plan are listed in Table 3-5, as recommended critical areas.





Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Owner- ship	Comments/ Source(s)
		Public Private	
Significant watercourses (and wetlands)	Statewide; lands of 6% slopes or greater adjacent to watercourses and wetlands (as shown in the USDA soil surveys); also, flat slopes adjacent to watercourses and wetlands; (Erosion and sedimentation critical areas)	хх	To help lessen direct runoff of sediments and pollutants into state waters (DNREC/ DS&WC)
Heritage Rivers of State and National Importance	Statewide; for recreation conservation and preservation uses; White Clay Creek including Middle Run, Appoquinimink River, Blackbird River, Delaware River, Leipsic River, Choptank River, Nanticoke River, Murderkill River, Brandywine River, and Christina River, as referenced in the 1979 State Comprehensive Outdoor Recreation Plan (SCORP)	x x	Delaware's commit- ment to a policy of rivers protection and enhancement (DNREC/OHP&R), (SCORP)
Tidal Tributaries of Delaware River and Estuary	Statewide; upstream developments throughout the watersheds and especially within the flood plains, in addition to sediment via wind and sheet water erosion, pesticides, fertilizers and other pollutants have contributed to the stressed biological conditions of the tributaries; the estuarine ecosystems support a substantial sport and commercial fisheries	X X	Future development and land use should be evaluated for "unforeseen" effects on the water quality and estuarine ecosystems (DNREC/DFW)
Freshwater streams	Statewide; streams which serve as spawning habitat for anadromous fish such as herring, shad, and white perch	x x	Herring and American shad stocks are currently very low, and special protection is needed to increase their populations (USDC/NMFS)

Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Typ Own shi		Comments/ Source(s)
;		Public	Private	
Hurricane Run- Rocky Run	New Castle County; containing a highly scenic tributary system of Brandywine Creek; this 250 acres land is suggested to be part of the proposed Brandywine Creek State Park Preserve in a study for the State Division of Parks and Recreation		Х	(DNES)
Brandywine Creek	New Castle County; flows for a distance of 10.3 miles in Delaware; a substantial portion of this State Natural Area is under consideration for National Natural Landmark Designation	X	x	(DNES), (USDI/ HCRS)
Noxon town Pond	New Castle County; widely renowned through literature and photographs; 500 acres		x	Primary contact re- creation source due to its good water quality (DNES)
Potential Recreation Rivers	New Castle County; namely: B.andy- wine Creek* - mouth to Pennsylvania State border; Appoquinimink River - confluence with the Delaware River to the headwaters; Blackbird Creek - confluence with the Delaware River to the headwaters; Cedar Swamp Tributaries (White Cedar Creek) - confluence with the Delaware River to the headwaters; Naaman's Creek - confluence with the Delaware River to the headwaters; Smyrna River - confluence with the Delaware River to Duck Creek Pond (partially in Kent County); Red Clay Creek - confluence with White Clay Creek to headwaters; and Augustine Creek confluence with Delaware River to the headwaters. *(Interstate river)	X	X	Preliminary List of rivers under evaluation under the Wild and Scenic Rivers Act for nomination to the National River Inventory List (USDI/HCRS)

Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Owner- ship		Owner-		Comments/ Source(s)
		Public	Private			
Brandywine River, its stream valley and banks in Wilmington	New Castle County; from City's northern boundary to Amtrak Bridge; scenic quality and regional recrea- tional opportunities	X	X	Water resource man- agement (NCC-CoW)		
White Clay Creek, Red Clay Creek, Christina River, Brandy- wine River	New Castle County	x	x	Streams designated and used as drinking water supply sources; also have social and economic significance (DNREC/WSB)		
Potential Recreation Rivers	Kent County; namely Smyrna River - confluence with the Delaware River to Duck Creek Pond (partially in New Castle); Little River - Dela- ware Bay to the headwaters; Marshy Hope Creek - Maryland border to Gut Bridge (partially in Sussex County); Mispillion River - Dela- ware Bay to Milford (partially in Sussex County); Murderkill Nanti- coke River - north of Seaford to the headwaters (partially in Sussex County) St. Jones River - Delaware Bay to Silver Lake; and; Tribury Creek - confluence with the St. Jones River to Voshell Pond	x	X	Preliminary list of rivers under evaluation, under the Wildland Scenic Rivers Act for nomination to the National River Inventory List (USDI/HCRS)		
Leipsic River in Leipsic	Kent County; running through the town	X		(KC-ToL)		
Murderkill River and Browns Branch	Kent County; pleasant waterways with attractive wooded fringe; 1,000 acres		X	(DNES), (KC)		
Tributaries of the Chesapeake Bay	Kent and Sussex Counties; the upper tributaries to the Chesapeake drain- age (Marshy Hope and Choptank); agricultural drainage has added to the sediment loading and pesticide levels in the main tributaries and subsequently the Chesapeake Bay		x	Pollutants have adverse effects on the biota and subsequent recreational and commercial benefit of these waters (DNREC/DFW)		

•	RECOMMENDED SURFACE WATER	וזמטם	50	
Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Owner- ship		Comments/ Source(s)
		Public	Private	
Inland Coastal Bays and their Tributaries	Sussex County; Rehoboth Indian River and Assawoman Bays, brackish tidal bays, adjoining the Atlantic Ocean; all tributaries that flow into the Rehoboth Bay, Indian River and Bay, Little Assawoman Bay and Assawoman Bay up to and including their watersheds. Sediments, excessive nutrients, loss of wetlands, septic seepage and dredging have altered the productivity of the tributaries and decreased in the water quality		X	The small bays have suffered extensive loss of their marsh fringe through development. Significant decrease in water quality resulted in closure of a substantial area of their shellfish beds. For continued utilization of these resources, the ecological health and productivity of these bays and tributaries must be conserved
Silver Lake	Sussex County; fresh water pond		x	Wintering area (DOS)
Rehoboth Bay and tributaries	Sussex County; south of Rehoboth; damage or pollution would have serious effect on area economy	X		(SC-CRB)
Surface water bodies in Sussex County	Sussex County; namely: Indian River Inlet, Atlantic Ocean, Delaware Bay, Indian River Bay, Rehoboth Bay, Assawoman Bay, Indian River, Nanticoke River, Broadkill River, Broad Creek, Roosevelt Inlet, Lewes and Rehoboth Canal, Assawoman Canal	х		(SC)
Potential Recreation Rivers	Sussex County; namely: Broad Creek - confluence with Nanticoke River to Laurel; Beaverdam Branch - Wiley's Pond to headwaters; Broad- kill River - Delaware River to Milton; Cedar Creek - Delaware Bay to the headwaters; Slaughter Creek - confluence with Assawoman Bay to	X	x	Preliminary list of rivers under evaluation, under the Wild and Scenic Rivers Act for nomination to the National River Inventory List (USDI/HCRS)

Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)		e of er- p		Comments/ Source(s)	
		Public	Private '		· ·	
Potential Recreation Rivers (continued)	headwaters; Herring Creek - con- fluence with Rehoboth Bay to head- waters; Guineau Creek - confluence with Herring Creek to headwaters; Indian River - Indian River Bay to the Millsboro Pond; Blackwater Creek - confluence with the Indian River to the headwaters; James Branch* - confluence with Broad Creek to Maryland border; Pepper Branch - confluence with Broad Creek to headwaters; Hitch Pond - confluence with James Branch to Pepper Branch Marshy Hope Creek - Maryland border to Gut Bridge (partially in Kent County); Miller Creek - confluence with Assawoman Bay to Milford (partially in Kent County); Nanticoke River - North of Seaford to the headwaters (partially in Kent County); Deep Creek - confluence with the Nan- ticoke River to the headwaters; Pocomoke River* Maryland border to the headwaters; and, Primehook Creek - Broadkill Beach to Route 14 *(Interstate river)					
Cedar Creek	Sussex County; Idyllic stream segment with abundant white cedar; 150 acres		x	(DNES)		
Blackwater Creek	Sussex County; a tributary of Indian River flanked by largely unspoiled and highly productive marshes; 200 acres		Х	Indian I	y unspoiled River ry (DNES)	

Wetlands/Tidal Lands

Importance of wetlands lies in their natural function as the foundation of estuarine productivity. Tidal wetlands contain a combination of freshwater and seawater, and are among the most productive systems known in terms of total organic material produced. Wetlands support a variety of mammals, birds, fin fish, shell fish and other living organisms. They represent an essential link in the life cycle of the majority of the sport and commercial fish taken in the marshes, estuaries, and offshore waters of Delaware.

As a part of Delaware's natural heritage, wetlands contribute immeasurably to the quality of life of the State's residents. They are one of the significant open areas remaining in Delaware, and possess a unique natural beauty. These wetlands are used more for sightseeing, photography, and other passive forms of recreation than for hunting and fishing. Wetlands are also a significant coastal resource because they contribute to better water quality and coastal stabilization. Wetlands are significant for their value to education and serve as natural and accessible laboratories for the study of many biological processes upon which elemental food chains are based.

It is important that: these "productive public and private wetlands of the State are preserved and protected to prevent their despoilation and destruction; and (that) activities in or adjacent to wetlands are planned such as to minimize wetlands destruction or degradation, to preserve the natural and beneficial values of wetlands and to protect the public interest therein." These and other CMP policies related to Delaware wetlands are enforced by the State DNREC, under the Wetlands Act of 1972 and related regulations.

¹ Source: CMP-EIS Report

Wetlands and tidal lands recommended for inclusion into the Statewide Critical Areas Plan are listed in Table 3-6. A Generalized Wetlands Map of Delaware from the CMP-EIS Report is presented as Figure 3-6.

Table 3-6 RECOMMENDED WETLANDS/TIDAL LANDS

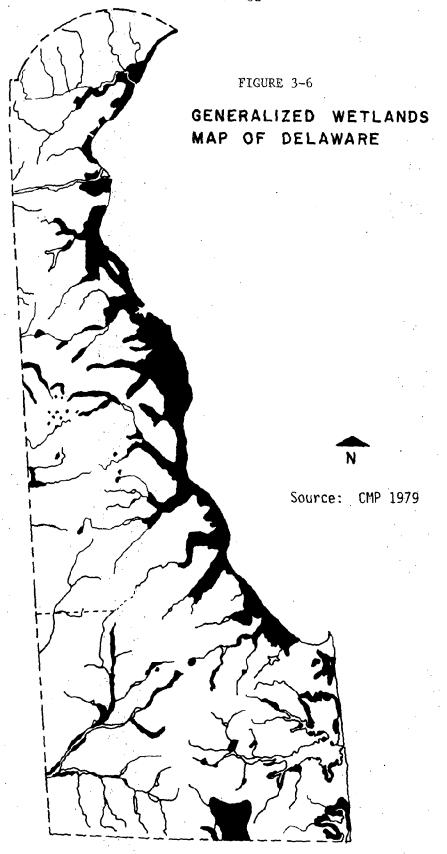
Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Typ Own shi		Comments/ Source(s)
		Public	Private	
Tidal and Impounded Wet- lands (saline and fresh water)	Statewide; marshes and impounded marshes located primarily along the State's east coast, and along the Nanticoke drainage, comprising more than 100,000 acres; tidal marshlands support fisheries through nutrient production and by providing nursery areas. A variety of wildlife species flourish in marshlands		x	All salt water based fishery, recreation and commercial harvest of finfish and shellfish is dependent on the marsh ecosystem (DNREC/DFW)
Freshwater swamps and wetlands	Statewide; in marginal agricultural and forested areas; public assistance in agricultural drainage programs opens a means for private owners to "tie-into" the drainage system and turn intermittent seasonal and permanent wetlands into marginal but tillable land		x	Current actions by private owners drastically alter the wetland and swampy area habitats; losses of wetland and swampy areas result in a change to less diverse fish and wildlife populations
Freshwater Marshes	Statewide; depending upon their location, may trap suspended sediment and assimilate pollutants from runoff before the water reaches the estuarine environment	x	х	Support anadromous fish spawning and nursery areas (USDC/NMFS), (CLNCC)
Freshwater Marsh, Brandy- wine Creek State Park	New Castle County; attractive marsh in the present flood plain of Brandywine Creek; 18 acres	X		Habitat of secretive Muhlenberg turtles (DNES), (DOS)
Cristina Creek banks and marshes	New Castle County; between Road 7 and Churchman's Road; 225 acres	X	x	Remnant of the great Christina Marsh (DNES)
Dragon Run Marshes	New Castle County; notable as the northernmost, unimpaired, fresh-water unit in the State; 600 acres	X	X	Northernmost pro- ductive marsh com- plex in Delaware, noted for wood duck nesting (DNES), (DOS

Table 3-6 RECOMMENDED WETLANDS/TIDAL LANDS

				•
Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Owner- ship		Comments/ Source(s)
		Public	Private	
Thousand-Acre Marsh	New Castle County; largest fresh- water marsh in the State; 1,300 acres		X	Area highly attractive to waterfowl as their breeding and feeding habitat (DNES), (DOS)
Augustine Creek Marshes and J. Gordon Arm- strong heronry	New Castle County; predominantly saltmarsh cordgrass rimmed by phragmites adjacent to Route 9; 1,200 acres	X	x	Productive marshes, notable nesting Colony of Great Blue Herons (DNES)
Silver Run Marshes	New Castle County; located between Road 423 and Road 37, and traversed by Route 9; 665 acres	X	x	Undistrubed tidal marsh (DNES)
Cedar Swamp	New Castle County; once primarily fresh with an abundant growth of Atlantic white cedar, now a tidal marsh; 2,600 acres of tidal wetlands with an associated 3,400 acres of uplands		X	Highly attractive breeding and migratory feeding grounds for water fowl and raptors; one of the largest tracts of undeveloped land in Delaware; the area has a significant potential for public recreation (DNES), (DNREC/DFW), (NCC), (USDI/HCRS)
Tidal marshes and impounded marshes	New Castle and Kent Counties (coastal marshes); located from the Appoquinimink River to the St. Jones River. These marshes in the coastal Kent and Lower New Castle Counties provide exceptionally fine wintering habitat for migratory waterfowl; the areas support a large population of Canada geese and a variety of ducks, and the majority of the State's muskrat trapping industry. They support coastal finfish and shellfish resources	X .	X	Highly valuable lands for their ecological value; the acres contain lands of the U. S. Department of the Interior and the Division of Fish and Wildlife (DNREC/DFW), (DNES), (KC)

Table 3-6 RECOMMENDED WETLANDS/TIDAL LANDS

Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Owner- ship	Comments/ Source(s)
		Public Private	
Milford Neck marshes	Kent County; located north bank of Mispillion river and east of Road 412; 675 acres	x	Significant research study area, since the 1930's (DNES), (KC)
Wetlands in Bowers Beach	Kent County; west edge and north edge of the town; natural area	x	(KC-TBB)
Marshlands in Leipsic	Kent Couny; located north and east of the town	x x	(KC-ToL)
Fenwick Island	Sussex County; 2 miles along Assa- woman Bay, a spawning ground for fish, crustaceans	X	(SC-TFI)
Marsh Island Complex, East side Rehoboth Bay	Sussex County; this group of cord- grass marsh islands harbors the most productive Osprey nesting colony in Delaware; 745 acres	x x	Nesting colony for the rare Osprey (DNES), (DOS)
James Branch	Sussex County; the greatest concentration and the oldest growth of bald cypress in Delaware; 825 acres	х х	Magnificant bald cypress along the most spectacular canoe trail (DNES)
Great Cypress Swamp	Sussex County; located north of the State line with Maryland and between Route 26 and U. S. Route 113; 6,000 acres, the largest tract of undeveloped land in Delaware, excluding tidal salt marshes	x	Vast, ravaged swamp- land being reclaimed under Delaware Wild Lands Ownership (DNES), (DNREC/DFW), (DOS)
Canary Creek and Old Mill Creek marshes	Sussex County; owned by, and adjacent to the University of Delaware Lewes Marine Studies Complex, reknown in the annals of coastal marsh ecology; 2,300 acres	X	Extraordinary uni- versity research area (DNES)
Marshes of Wolfe Glade and Holland Glade	Sussex County; west side of Lewes - Rehoboth Canal, and between Route 267 and Henlopen Acres; 940 acres	x	Extensive wetlands in a vulnerable location (between two communi- ties of intensive vacation home develor ment (DNES)



Forests and State Parks

Delaware has an estimated 370,400 acres of private forestlands and has seven State forests with a total of nearly 6,400 acres of land (under the administration of the Forestry Section of the State Department of Agriculture). Although forest land is managed primarily as a timber and pulp-producing cropland, the Forestry Section has been advised to: "set aside within the State forests, unusual or historic groves of trees or natural features particularly worthy of permanent preservation, and may make the same accessible and convenient for public use, and may dedicate them in perpetuity to the people of the State for recreation and enjoyment...". 1

The recreational values of woods for walking, camping, nature observation and hunting are the most recognized ones. Depending on the season, the area of woodland coverage, and the tree sizes, density, species and variety of vegetation, woodlands can be places of great beauty and of significant aesthetic value. For a State which is comprised largely of flat and cleared lands, the Delaware woodlands add an important visual variety to the landscape.

As habitat for animals and birds, woodlands are essential for the survival of many species, and they replenish earth's oxygen supply. They significantly affect the microclimate of small areas by functioning as windbreaks and shade producers. The woodlands also play a key role in the hydrologic cycle and in the natural transfer of energy.

The DNREC Division of Parks and Recreation operates, maintains and develops the ten State parks of total area of nearly 9,000 acres. These parks are predominantly urban-metropolitan areas and, thus, provide close-to-home

¹ Source: SCORP Report, December 1979

recreation facilities for the majority of the State's residents. All State parks have facilities for both passive and active recreation enthusiasts.

Half of these State parks (5) are located in the most heavily populated New Castle County, one exists in Kent County, and the other four State parks are in Sussex County where they form resource base of the State's tourism industry.

The CMP-EIS Report and the SCORP Report are valuable references on Delaware forests and State parks. State forests, State parks and other woodlands as listed in Table 3-7, are recommended as Statewide critical areas.

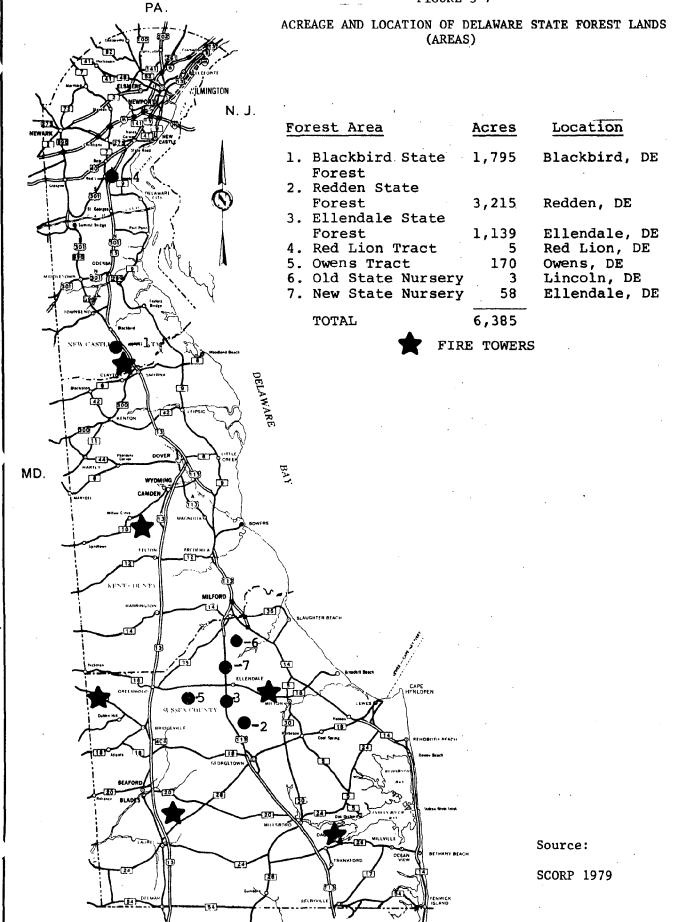
Table 3-7 RECOMMENDED FORESTS AND STATE PARKS

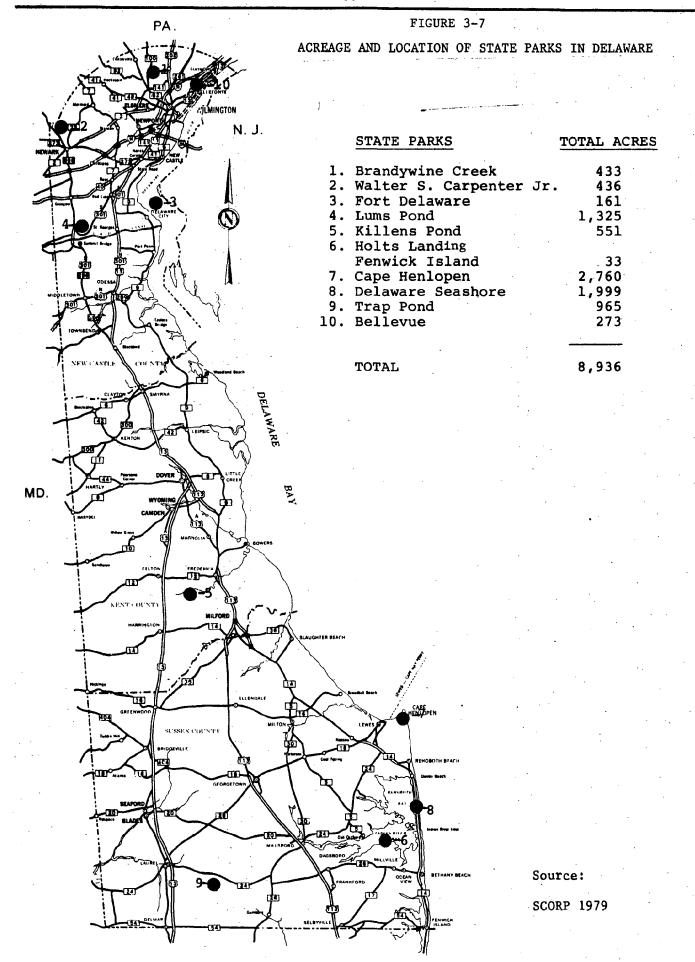
Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Typ Own shi		Comments/ Source(s)
		Public	Private	
State Forests	Statewide; the seven State Forests are: Blackbird State Forest, Redden Redden State Forest, Ellendale State Forest, Red Lion Tract, Owens Tract Old State Nursery, and New State Nursery; 6,385 acres in total land area; they are under the administration of the Forestry Section of the State Department of Agriculture; See Figure 3-7 for locations			Refer 1979 SCORP report, "unusual or historic groves of trees or natural features particularly worthy of permanent preservation for recreation and enjoyment" (DNREC/OHP&R), (SCORP), (DOS)
Private forest- lands	Statewide; totalling 370,400 acres		X .	Refer 1975 Delaware Coastal Management Plan, and 1979 SCORE (DNREC/OHP&R)
State Parks	Statewide; 10 in number, namely: Brandywine Creek; Walter S. Carpenter Jr.; Fort Delaware; Lums Pond; Killens Pond; Holts Landing Fenwick Island; Cape Henlopen; Delaware Seashore; Trap Pond; and Bellevue State Parks, of total area, 8,936 acres. (See figure 3-7 for locations)	x	· .	(SCORP); (DOS), (DNES), (SC) (NCC-TOB)
Walter S. Carpenter, Jr. State Park	New Castle County; mature woods covering the attractive valley slopes of a small stream which flows into a tributary of the White Clay Creek; owned by the State of Delaware; 25 acres	X		(DNES), (DOS)

Table 3-7 RECOMMENDED FORESTS AND STATE PARKS

Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Owner- ship	Comments/ Source(s)
		Public Private	
Fall-Spring Woods	New Castle County; mature wooded valley of a White Clay Creek tributary stream; part of the 75 acres of this parkland is owned by the State of Delaware	х х	(DNES), (DOS)
Jackson Hollow	New Castle County; 70 acres of old growth forest with many specimen trees, adjacent to the Louviers Recreation Area	x	Potential for incorporation into Walter S. Carpenter, Jr. State Park (DNES), (DOS)
Game and Fish- land in Smyrna	Kent County; owned by the State of Delaware	x	(KC-ToS)







Aquifers/Recharge Areas

The ability of the State's underground reservoirs to accept recharge from precipitation and, subsequently, release of this water to streams and wells determines the quantity and quality of major groundwater sources. The underground reservoirs usually store much more water than is used in a year; consequently, the risk of shortages in local water systems which depend on groundwater is much less during a long, dry period than for those systems which use surface water.

Increased groundwater withdrawal or surface water diversion from other streams in the area, where the surface water supplies are limited, can result in overdevelopment of these resources and can aggravate the problems of salt water intrusion, leachate contamination, and other degradation of wells or stream base flows. South of the Chesapeake and Delaware Canal, many of the large, usable aquifers remain untapped due to naturally occurring high total dissolved solid concentrations. There are, however, some areas (in particular at Dover and Milford) where withdrawals are resulting in dropping water tables. In some coastal locations, where water table elevations are less than ten feet above sea level, there is a potential for salt water intrusion into the groundwater reservoirs, if high capacity wells were to draw down the water table and reverse the hydraulic head which opposed the intrusion process.

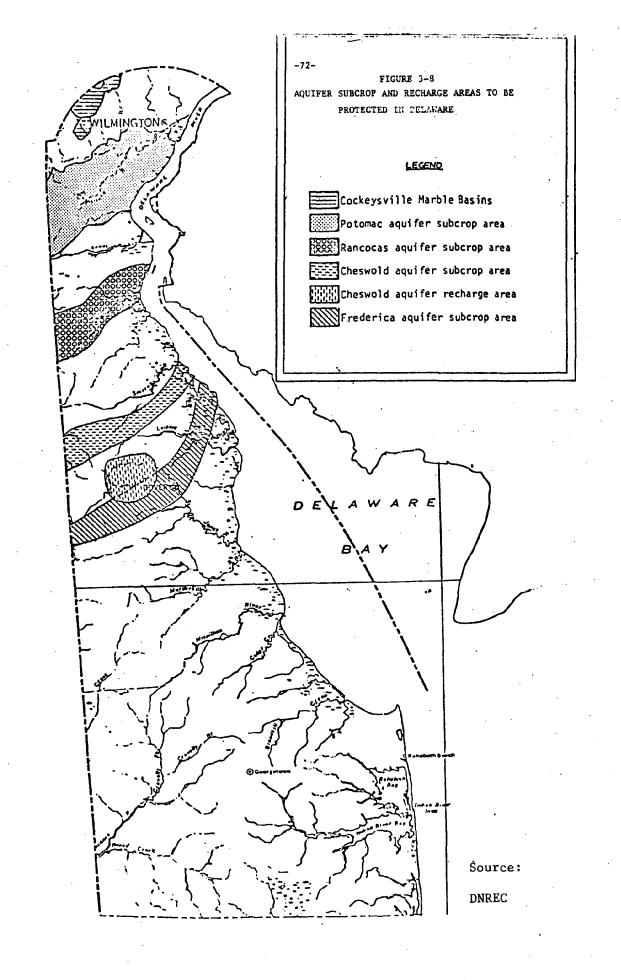
Leachate from solid waste and dredge spoil also impacts water supply quality. Both the New Castle County and the Coastal Sussex 208 Programs have suggested that water withdrawals, both new and existing, be restricted in areas where salt water intrusion or leachate problems could be encountered. The CMP policies on aquifers/recharge areas state that groundwater withdrawals should not exceed the safe-sustained yield and that withdrawals from confined aquifers should not cause water levels to be lowered below the top of the

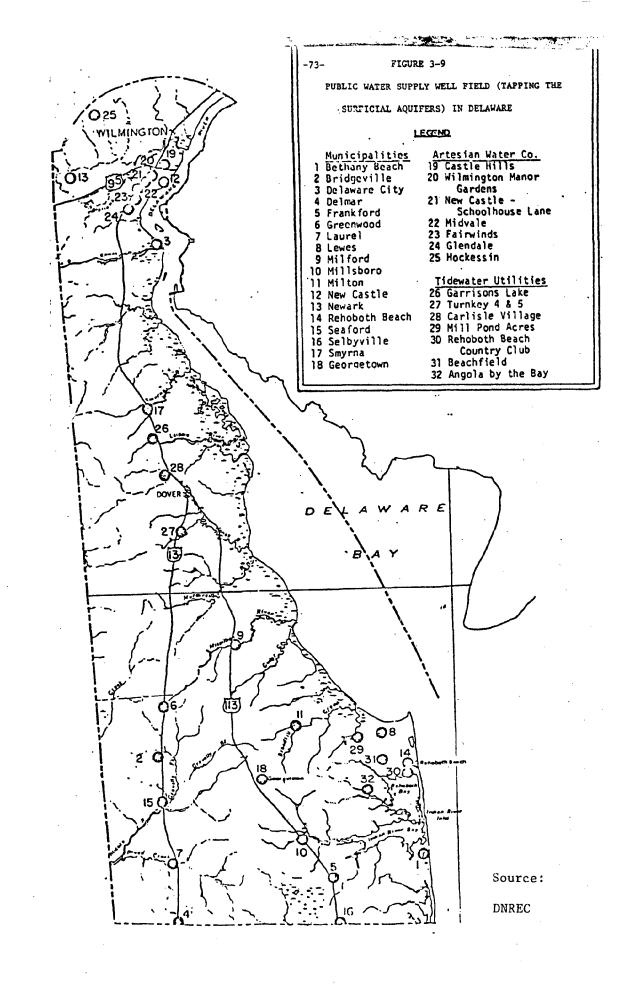
aquifers. Also, the CMP recommends that the protection of aquifer recharge areas should be part of a water supply management program to be developed by State, county, and local governments and private water suppliers.

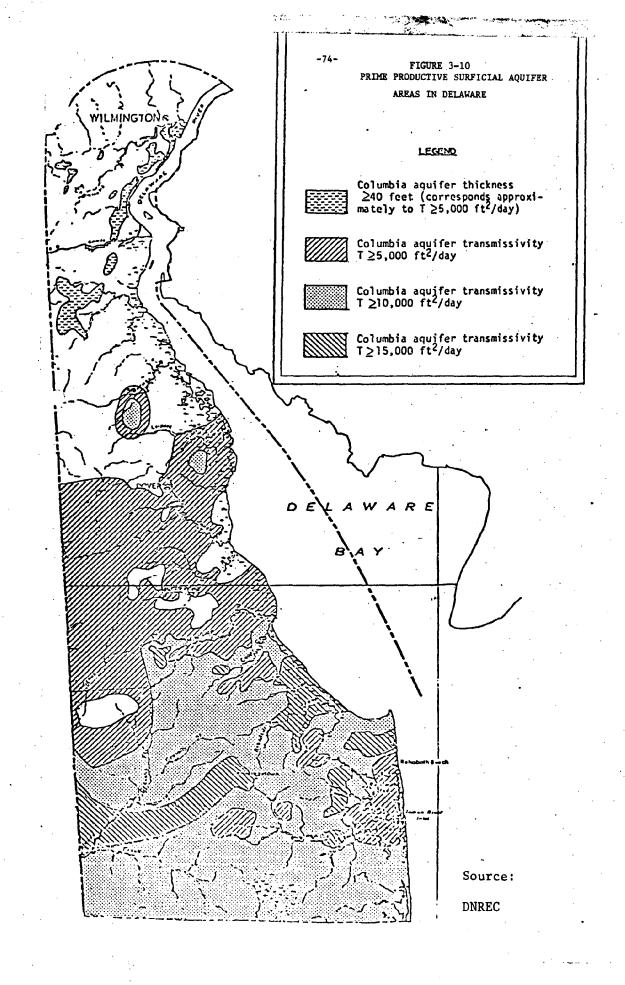
Recommended aquifers/recharge areas identified for inclusion into the Statewide Critical Areas Plan are presented in Table 3-8. Figures 3-8 and 3-9 taken from the DNREC Water Supply Branch input to the Statewide Plan show respectively the location of major State recharge areas and the wellfields that rely on groundwater resources fed by the major recharge areas. Figure 3-10 taken from the same source, shows the prime, productive surficial aquifer areas in Delaware.

Table 3-8
RECOMMENDED AQUIFERS/RECHARGE AREAS

Name of Site(s) or Area(s)	(Location, size, etc.)		e of er- p	Comments/ Source(s)	
		Public.	Private	· .	
Aquifer recharge areas	Statewide; as shown in Figure 3-8	Х	X	Protection of ground- water (DNREC/WSB), (US EPA), (CLNCC)	
Public water supply well fields	Statewide; as shown in Figure 3-9 (Public utilities)	x	x	Protection of ground- water (DNREC/WSB) (US EPA)	
Outcrop areas of aquifers	Statewide; belonging to the Chesa- peake Group in central and Southern Delaware (See Figure 3-10)	x	X	These outcrop areas also act as recharge areas (DGS)	
Water Resource Protection Areas	New Castle County; many of these areas, particularly the larger ones could be considered critical; Reference maps available at County Department of Planning; showing recharge capability of surficial sediments.	x	x	(DGS)	
Laird Tract Wells, North Field and South Well Field	New Castle County; primary water source of the city of Newark	х	x	(NCC-CON)	
Cheswold and Piney Point Aquifers	Kent County	X	x	Important for the Dover AFB (DAF/DAFB)	
Town of Delmar water well field and Paelo Channel	Sussex County; 3 acres along York Street of the town; 2,300 town residents depend on Paelo Channel aquifer for drinking water	X		(SC-TOD)	
Route 268 - Kings Highway Water Well Fields, Lewes	Sussex County	X		(SC-CoL)	







Geologic Hazard Areas

Faults, land slides, rock falls, and other geologic areas are considered as hazard areas, and are unique and limited resources of the State. The recommended critical areas of Statewide concern, under this category are listed in Table 3-9.

Table 3-9

RECOMMENDED GEOLOGIC HAZARD AREAS

Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Owner- ship			Comments/ Source(s)
		Public	Private		
South Branch Naaman's Creek	New Castle County; geologic fault line passes through the area in N-S direction west of Marsh Road; also, spectacular scenic stream bed; 105 acres	x	x	(DNES)	

Minerals and Geologic Features

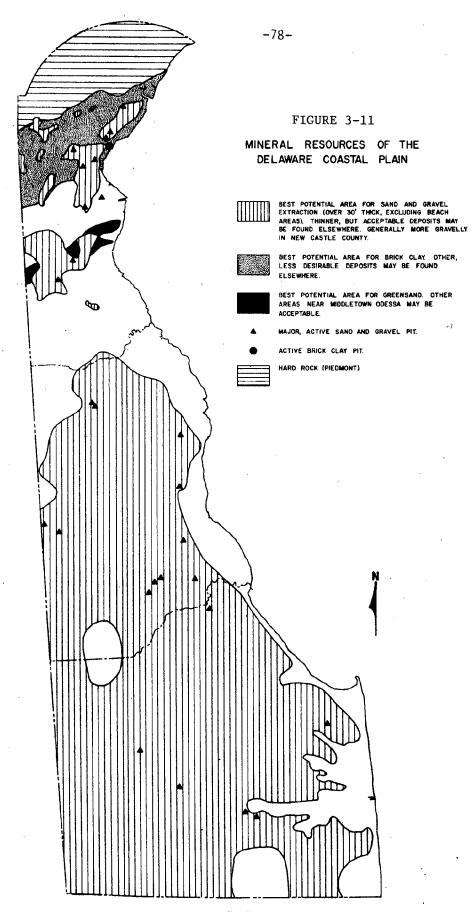
A National interest in minerals exists to ensure that the Country has an adequate, dependable and continuing supply of mineral commodities at reasonable cost. According to the U. S. Bureau of Mines, the total value of mineral related materials manufactured in Delaware is approximately \$1.3 billion each year, much of it attributable to the production of petroleum products.

The leasing of State lands for mineral extraction will become important only if economically feasible quantities of minerals are discovered. Preliminary surveys have not disclosed such major deposits in the State, but industrial interest has been shown and geologic conditions do not preclude their existence. Building stone, heavy minerals, kaolin clay for ceramics, sand of suitable quality for glass, and phosphate deposits are the potential mineral resources in the State. The mineral resources of the Delaware Coastal Plain are shown in Figure 3-11 taken from the CMP-EIS Report.

The Delaware Nature Education Society 1978 Study Report identifies a number of sites of unique geologic features, which represent recommended critical areas of concern to the State. These and other similar areas are of particular interest, because they depict the geological history of the area. They include barrier beaches and islands, unique tidal marshland, ancient sand spits, ancient dunes, migrating capes, and old inlets.

These highly valuable areas not only reveal the past but can help predict patterns of geological migration, tidal changes, and other factors. These areas are very vulnerable, if disturbed by man's intrusion and abuse, and are thereby, candidate areas requiring protection and preservation consideration as a non-renewable State resource.

A general geologic map of Delaware, prepared by the Delaware Geological Survey is presented as Figure 3-12. The map shows the outcrop areas of aquifers belonging to the Chesapeake Group in Central and Southern Delaware. Because these outcrop areas also act as recharge areas, they are considered as recommended critical areas of Statewide concern. Table 3-10 presents the sites and features of geologic significance recommended for inclusion in the Statewide Plan.



SOURCE: TECH. REPORT 4" DEL. COASTAL MANAGEMENT PROGRAM

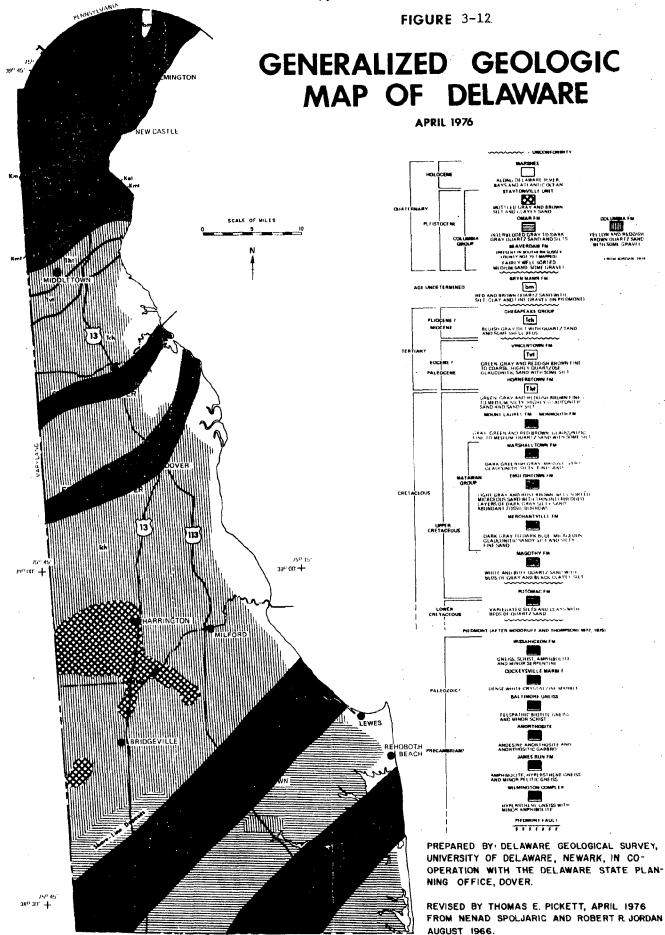


Table 3-10 RECOMMENDED MINERALS AND GEOLOGIC FEATURES

Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Owner- ship		Comments/ Source(s)
		Public	Private	
Eastburn Complex	New Castle County; highly valued geologic site consisting of an outcrop of Cockeysville marble, three abandoned quarries; and several lime kilns, remnant of early mineral industry; possible site for placement on the National Register of Historic Places; 14 acres		х	(DNES)
Deep Cut and Low Bluff of C & D Canal	New Castle County; 60 foot high bluff is a regionally unique exposure of four Upper Cretaceous aged Coastal plain formations; and the low bluff along the old channel is an exposure of two Upper Cret- aceous formations; all composed of marine sediments; U. S. Government Reservation under jurisdictions of U. S. Army Corps of Engineers	x		Needs to be preserved from eventual obliter- ation of the bluff (DNES)
Pleistocene Plant Deposits	New Castle County; only known service of non-marine plant fossils of the Pleistocene Era on the Delmarva peninsula, located in a sand and gravel pit of the State Division of Highways	X		Protection of this area high research value is needed (DNES)
Blanco Ditch Outcrop	Kent County; fossiliferous silica- cemented, coarse gray sandstone slabs of probable Miocene age; 18 acres		x	Extensive educa- tional uses of the site (DNES), (KC)
Columbia Formation, Killen Pond	Kent County; Pleistocene Epoch sediments of approximately 60 feet thick; partially owned by the State, and includes in the master plan recommendations for Murderkiln State Park; 12 acres	x	x [*]	Geological area of high educational (DNES), (KC)

Table 3-10 RECOMMENDED MINERALS AND GEOLOGIC FEATURES

Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Owner- ship		Comments/ Source(s)
		Public	Private	
Miocene Beds, Coursey Pond	Kent County; discovery of a rare fossiliferous Miocene outcrop in this 8 acre land is recommended to be part of the Murderkiln State Park complex	x		Geological area of high educational value (DNES), (KC)
Three Facies Pit, Middleford	Sussex County; exemplary exposure of a typical elongate mound structure, with three facies of Pleistocene sedimentation representing beach type environments; 6 acres		x	Geological site of educational value (DNES)
Omar Formation, Pepper Creek	Sussex County, distinctly bedded, consisting of gray to dark gray quartz sands interbedded with silts and sand silts; portion of this 5 acre site is on the State Division of Highways right-of-way	X	x	Fossil oyster beds (DNES)

RECOMMENDED PHYSICAL/OTHER CRITICAL AREAS

(PRELIMINARY)

3.3.2 Physical/Other Critical Areas

Other physical areas which are recommended for inclusion in the Statewide Critical Areas Plan are categorized under the following items:

- Other recreation sites, such as county parks, ballfields, and marinas;
- -- Waste disposal sites, such as sanitary and industrial landfill sites; and
- -- Impoundment sites, such as dams, dikes, reservoirs and freshwater wetlands.

These sites may be in their natural setting, though affected by man-made activities, and require certain protection and preservation. (It should be noted that some of these sites are included under the items within the physical/natural critical areas category.) The specific locations of these features are vital for the protection of the State's environment and for the well-being of its citizens. Hence, these sites are recommended for inclusion as critical areas of Statewide concern.

There are other natural features of concern which are not addressed under this critical areas study program. They include:

- -- Public drainage associations in the State, (belonging within the natural resources with the longest continuous use in the State) also referred to as tax ditches, or drainage corporation or drainage company systems (as identified by the Soil Conservation Service). The channels and right-of-way may be critical to system operation.
- -- Critical airsheds of New Castle County may be critical from the health hazard stand-point (as recommended by DNREC) due to the presence of photo chemical oxidents (measured as ozones) in excess of the national ambient air quality standards for ozone.

These recommended critical areas of Statewide concern are grouped as other recreation sites; waste disposal sites; and impoundment sites and are respectively listed in Tables 3-11, 3-12 and 3-13.

Table 3-11 RECOMMENDED OTHER RECREATION SITES

Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type Owne ship	∍r–	Comments/ Source(s)
		Public	Private	
Public Parks and Preserves	Statewide; 80,912 acres; details of these facilities are provided in the 1979 SCORP report; specific public parks and preserves are identified under physical/natural critical area categories	x		Refer 1979 SCORP; (DNREC/OHP&R), (SCORP)
Scenic Highways	Statewide; 62.4 linear miles of scenic auto trails as referenced in the 1979 SCORP report	x		Refer 1979 SCORP; (DNREC/OHP&R), (SCORP)
Delaware mill ponds and up- stream water- sheds	Statewide; the remnant mill ponds are slowly becoming filled with sediments over-enriched with nutrients from agricultural drainage and choked with vegetation, and residential development	x	x	Best land manage- ment practices are urgently needed to ensure the product- ivity of the ponds which support re- creational fishing and other activities (DNREC/DFW)
Sellers Park	New Castle County; well preserved woods in an urban setting; this attractive area of 45 acres deeded to the City of Wilmington by Sellers in 1930 for public enjoyment; the County leased the property for development and maintenance for a period of 40 years from 1967	, x		(DNES)
Mill Creek Valley	New Castle County; a wooded remnant of steep slopes and rocky stream beds partially owned by the County as a part of Delcastle Recreation Area; 125 acres	x	x	(DNES)
Middle Run (Muddy Run)	New Castle County; wooded valley of highly attractive stream and its tributaries; 220 acres		x	Potential for a future model recreation-conservation area; (DNES), (DOS)

Table 3-11 RECOMMENDED OTHER RECREATION SITES

Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type Owner		Comments/ Source(s)
		Public	Private	
Mt. Lebanon Run Park	New Castle County; a very attractive area of 30 acres; a continually refreshing sight to travelers on Mt. Lebanon Road; partially owned by the county, its Parks and Recreation Department intends to manage the site in its natural state	X	x	(DNES)
Chesapeake and Delaware Canal Bank/Marina	New Castle County; Delaware City, 2 acres of waterfront	X		Continued decline of this facility will have economic impact (NCC-DC)
Riverfront City of New Castle	New Castle County; present and future recreational area	X	x	(NCC-CONC)
Bellevue Woods	New Castle County; this old growth woodlands of 14 acres is part of a 273-acre tract recently purchased by the State of Delaware, and was formally designated Bellevue State Recreation Area	x		(DNES)
Marina in Henlopen Acres	Sussex County; approximately three acres, one of the best small marinas on the East coast	x		(SC-THA)
Millsboro Pond	Sussex County; recreational resource of 168 acres, and potential source of water supply	: X		(SC-TOM)
Barrier reach	Sussex County; between South Bethany and Fenwick Island on both sides of Route 1, containing wetlands and areas of high flood hazard zones	X	x	Prime recreational area; (SOSD)

Table 3-12 RECOMMENDED WASTE DISPOSAL SITES

Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Typ Own shi		Comments/ Source(s)
		Public	Private	
Waste disposal areas (active and abandoned)	Statewide	х	x	Potential danger to health and safety from explosions, groundwater contamination, noxious liquids and gases, vermin (DNREC), (USEPA)
Llangollan Landfill Site	New Castle County	X		Impact on the aquifer (US EPA)
Sandtown Sanitary land- fill site	Kent County; solid waste disposal site to be run by the Delaware Solid Waste Authority	X		Need to avoid groundwater contamination (KC)
Solid waste disposal site locations in Sussex County	Sussex County; action by the County in designating solid waste dump sites around Bethany Beach is causing economic hardship on beach area communities	x	x	(SC-TBB)

Table 3-13 RECOMMENDED IMPOUNDMENT SITES

Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Owner- ship		Comments/ Source(s)	
		Public	Private		
Hoopes Reservoir	New Castle County; Old Mill Streams area west of Wilmington; major water resource	Х		(NCC-COW), (NCC)	
White Clay Creek	New Castle County; major reservoir site	x	X	(NCC)	

RECOMMENDED SOCIAL CRITICAL AREAS

(PRELIMINARY)

3.3.3 Social Critical Areas

Within this category the following types of Statewide concern are considered for inclusion into the Statewide Critical Areas Plan:

- -- Cultural Areas such as museums, theaters and town centers;
- -- Institutions, including hospitals, school and public buildings;
- -- Historical/Archaeological sites; and
- -- Communications and Public Safety Facilities.

These four types of sites and facilities are discussed and presented below:

Areas such as museums, theaters and town centers are the lasting examples of the heritage and culture of the Country; they are viewed as "of more than local concern". However, none was identified through the preliminary inventory (input compilation and review) process.

Institutions

Institutions refer to "an establishment, especially one of public character affecting a community, or created and existing by-law or public authority".

These include both public and private facilities and structures such as hospitals, schools, and public buildings.

All public and private schools in the State which address the needs of more than one community (beyond the jurisdiction in which the school is physically located) are recommended for inclusion as social critical areas. Details on the extent of service area of such institutions are available from the State of Delaware, Department of Public Instruction. Institutions for higher education, public school districts, private schools and other special schools in the State of Delaware are listed in Table 3-14.

¹ Source: Senate Bill 358 definition.

Institutions identified as critical areas by State and county agencies and local jurisdictions are listed in Table 3-15, as recommended critical areas of more than local concern.

Table 3-14 EDUCATIONAL AND SPECIAL INSTITUTIONS IN DELAWARE

Higher Education Institutions

University of Delaware
Delaware State College
Delaware Technical and
 Community College
Beebe Hospital School of Nursing
Goldey Beacom College
Nursing School of Wilmington
Wesley College
Widener College (Delaware Law School)
Wilmington College

Special Institutions in State Agencies

Bridge House
Delaware Correctional Center
Delaware State Hospital
Ferris School for Boys
Governor Bacon Health Center
Hospital for the Mentally Retarded
Stevenson House
Sussex Correctional Institute
Terry Children's Psychiatric Center
Woods Haven-Kruse School for Girls
Women's Correctional Institution

Public School Districts

Appoquinimink
Caesar Rodney
Cape Henlopen
Capital
Delmar
Indian River
Kent County Voc-Tech
Lake Forest

Laurel
Milford
New Castle County
New Castle County Voc-Tech
Seaford
Smyrna
Sussex County Voc-Tech
Woodbridge

Non Public Schools

Catholic Schools (26 in Number) under the Office of Catholic Education,
Diocese of Wilmington
Private Catholic Schools (5 in Number) and,
Private Schools (68 in Number)

Source: Delaware Education Directory, 1980 - 81 State of Delaware, Department of Public Instruction

Table 3-15 RECOMMENDED INSTITUTIONS

Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Owner- ship		Comments/ Source(s)
		Public	Private	
Gawthrop Data Center	New Castle County, (ground of Delaware State Hospital); remote job entry center; Health and Social Services information, in addition to that which is stored in the Dover Center is located at Gawthrop	X		Further expansion of of the facility is imminent (DAS/DCDP)
Division of Revenue	New Castle County, (Delaware State Building at Wilmington) remote job entry center	х	, i	All taxpayer in- formation for the State is located in this area (DAS/ DCDP)
Forensic Sciences Laboratory	New Castle County, properties located adjacent to the laboratory for post mortem examination	x		In order that future expansion will not be hampered (DH&SS/DPH)
Delaware State Hospital Complex	New Castle County, located on the DuPont Highway, 160 acres; includes Delaware State Hospital, Terry Children's Psychiatric Center, South, South New Castle County CMH, and administrative offices of the Department of Health and Social Services	X		Principal mental health facility (DH&SS/DMH)
Governor Bacon Health Center Complex	New Castle County (Delaware City), off Routes 72 and 7, includes Civil Defense, National Guard and Division of Purchasing, 310 acres	X		Principal mental health facility (DH&SS/DMH)
Wilmington Medical Center	New Castle County		X	(NCC)
Gander Hill Prison Site (under con- struction)	New Castle County; major public investment	X		(NCC-CoW)

Table 3-15 RECOMMENDED INSTITUTIONS

Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type Owne ship		Comments/ Source(s)
		Public Public	Private	
Institutions of higher educa- tion, Dover	Kent County; Wesley College, Delaware Technical and Community College, serving beyond the limits of the City	X	х	(KC-COD),
Kent General Hospital	Kent County; serves the lower part of the State and nearby Maryland area		X	(KC), (KC-CoD)
Milford Memorial Hospital	Kent County, in the City of Milford		x	(KC), (KC-CM), (SC)
Public institutions in Smyrna	Kent County; they include Allan McLane Armory, Department of Correction, and Home and Hospital, all of which are owned by the State of Delaware	x		(KC-ToS)
Computer Room, Tape Library, Production Control and Data Entry Areas and Program Library	Kent County (City of Dover) Highway Administration Building, First Floor; it includes the State's financial records, i.e., payroll, pension, vendor data, motor vehicle registration, health and social service information and other pertinent data	X		This is the main, and in some cases the only source of all data processing information for the State of Delaware (DAS/DCDP)
Health care facilities, in Lewes	Sussex County; Beebe Hospital and Beebe Clinic on Savannah Road		X	(SC-CoL), (SC)
Hospital for the Mentally Retarded	Sussex County, at Stockley	. X		(SC)
Nanticoke Hospital	Sussex County, Seaford		x	(SC)

Historical and Archaeological Sites

There are over 10,000 entries of historic and cultural resources identified and inventoried by Delaware's Bureau of Archaeology and Historic Preservation (Division of Historical and Cultural Affairs, Department of State). Properties located in and under the landscape which maintain inherent historical, cultural and scientific value are identified in this list, for protection and preservation "for the understanding and appreciation of the history and development of Delaware from man's earliest occupation of this landscape over 12,000 years ago to the present". These include buildings, structures, objects, archaeological sites and districts, and are viewed as non-renewable resources requiring recognition and careful management.

Properties identified on the Statewide cultural resources inventory receive further recognition as warranted, by nomination to the National Register of Historic Places. Nearly 2,500 properties from among this inventory, thus far, have been nominated and listed in the National Register. At the federal level, the Heritage Conservation and Recreation Service (HCRS) of the Department of the Interior, performs its role of coordinating and supporting public and private involvement in the recognition and preservation of significant cultural resources. All Delaware historic areas in the National Park System, together with those properties eligible for designation as National Historic Landmarks, are of National significance and are listed in the National Register.

Information regarding the description, location, size and significance, and relative uniqueness of these properties is available at the offices of the State Historic Preservation Officer (SHPO) and from the National Register of Historic Places. From among the buildings, structures, objects archaeological sites and districts identified by federal, State, county and local agencies and

¹ Source: Input from State Historic Preservation Officer

register (Book 2 of 2 Books, February 6, 1979; and that of March 18, 1980) and as listed in the National Register of Historic Places are presented in Table 3-16. These are recommended critical areas of more than local concern. However, it should be noted that all properties appearing in the National Register are recommended for inclusion into the Statewide Critical Areas Plan.

Table 3-16 RECOMMENDED HISTORIC/ARCHAEOLOGICAL SITES

Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Owner- ship		Comments/ Source(s)	
		Public	Private		
Buildings, structures, objects, archaeological sites and districts of historic, archaeologic, cultural and scientific importance	Statewide; located across and under the landscape which maintain inherent historical, cultural and scientific value; identified on the Statewide cultural resources inventory, 10,000 entries of which approximately 2,500 thus far have been nominated and listed in the National Register of Historic Places	X	х	For the understand- ing and appreciation of the history and development of Dela- ware from 12,000 years ago to the present. These are nonrenewable resources which merit recogni- tion and careful management (DS/DS&CA)	
Village of Arden	New Castle County; Arden Trust, 160 acres	x	x	The only village in the nation listed in the National Register in its entirety (NCC-VOA)	
Fort Casimir	New Castle County; archaeological site	x		(NCC-CONC)	
New Castle Historic District	New Castle County; the Historic District as defined by City Zoning map is listed in the National Register of Historic Places	X	x	(NCC-CONC)	
Beaver Creek- Prehistoric rock shelter (wolf cave)	New Castle County; a fault cave of banded gneiss, of archaeological significance		x	(DNES)	
Everett Paleo - Indian Site	New Castle County; important, highly threatened site of Paleo-Indian occupation, 12 acres		X	(DNES)	
Iron Hill	New Castle County; contains two outstanding geologic sites and a unique archaeological site, a site of prehistoric jasper quarry; partially included in New Castle County's Iron Hill Park; 16 acres		X	Potential site for nominations to the National Natural Landmarks Program (DNES), (USDI/HCRS)	

Table 3-16 RECOMMENDED HISTORIC/ARCHAEOLOGICAL SITES

Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Owner- ship		Comments/ Source(s)
		Public	Private	
Clyde Farm	New Castle County; Indian and Dutch artifacts spanning nearly 7,000 years, and listed in the National Register of Historic Places; 18 acres		х	(USDI/HCRS), (DNES)
Hell Island Site	New Castle County; a wide range of ceramic and lithic data in a relatively undisturbed context; listed in the National Register of Historic Places; 10 acres		x	(DNES)
Hughes Early Man Complex	Kent County; lcated west of Felton, with evidence of Paleo Indian early Archaic; three separate sites totalling 120 acres; listed in the National Register of Historic Places		x	(DS/DH&CA), (DNES)
Buildings or sites of his- toric import- ance in the Historic Zone of Dover	Kent County; expression of heritage of the City	x	x	(KC-CoD)
Hughes-Willis Site	Kent County; rare archaeological area within Dover City limits - 16 acres		х	(DNES)
Dill Farm	Kent County; archaeological excava- tions of rare Archaic features, a buried forest of 9 to 10 thou- sand years old; 36 acres		х	State nominee for the National Register of Historic Places (DNES)
Island Field Site	Kent County; multicultural pre- historic occupation and a unique burial grounds; a unique tourist attraction of State's Section of Archaeology containing the Island Field Archaeological Museum and Research Center listed in the National Register of Historic Places; 40 acres	х	x	(DNES)

Table 3-16
RECOMMENDED HISTORIC/ARCHAEOLOGICAL SITES

Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Owner- ship		;	Comments/ Source(s)
		Public	Private	•	
Millman Site	Kent County; a wealth of artifacts spanning thousands of years; part of the tentatively designated Milford Neck Complex; 19 acres		х	(DNES)	
Frederica Historic District	Kent County; group of structures of historic and architectual significance	x	х .	(KC-Tof)	
Historic Places in Magnolia	Kent County; John B. Lindale House, Mathew Lowber House, both on Main Street, Town of Magnolia		x	(KC-ToM)	
Slaughter Creek Site	Sussex County; location of a culturally distinct prehistoric Indian occupation, typical of Delaware archaeological classic, and has ben nominated for placement on the National Register of Historic Places; 64 acres		x	(DNES)	
Lone Pine Site	Sussex County; named for a single tree in the field, it is a pre- historic site of potential arch- aeological significance; 40 acres		X	(DNES)	
Wolfe Neck Site	Sussex County; massive shell midden, with abundant artifacts; it is part of a complex nominated for inclusion in the National Register of Historic Places; 25 acres		x	(DNES)	
Thompson's Island	Sussex County; Indian camp and buria site, nominated by inclusion in the National Register of Historic Places 8 acres		X	(DNES),	(DOS)
Poplar Thicket	Sussex County; a rare and arch- aeologically exciting site, a nominee for the National Register of Historic Places; 36 acres		X	(DNES)	

Table 3-16 RECOMMENDED HISTORIC/ARCHAEOLOGICAL SITES

Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Owner- ship		Comments/ Source(s)
	·	Public	Private	
Indiana River Middle Woodland Complex	Sussex County; in the vicinity of Millsboro; three separate sites with a number of parcels, listed in the National Register of Historic Places; approximately 20 acres		X	(DOS/DH & CA), (DNES)
Fenwick Island Lighthouse	Sussex County; only seaside lighthouse in the State still standing; approximately one acre	X		(SC-TFI)
Sussex County Courthouse	Sussex County; colonial style buildings	x	x	(SC-ToG)
Lewes Historic District	Sussex County; older section of Lewes	x	X	(SC-CoL)

Communications and Public Safety

All public and private communication facilities including telephone installations, newspapers, radio and television stations and associated facilities which are important for the cultural, educational and social nourishment of the State's citizens are recommended for inclusion in the Statewide Critical Areas Plan. All emergency operation centers (fire stations and public safety establishments which cover more than the jurisdiction in which they are physically located) are also recommended for inclusion as critical areas of statewide concern.

Specific institutions and establishments that were identified by federal, State and local entities are listed in Table 3-17.

Table 3-17
RECOMMENDED COMMUNICATIONS AND PUBLIC SAFETY

Name of Site(s) or Area(s)	(Location, size, etc.)	Type of Owner- ship		Comments/ Source(s)
		Public	Private	
Telephone installations	Statewide; owned by Diamond State Telephone Company		Х	(PSC), (DAF/DAFB)
Ommelanden Hunter Safety Training Complex	New Castle County; proposed shooting facilities for shotgun small bore and centerfire rifles; located east of Route 9 south of New Castle, immediately adjacent to the Delaware National Guard firing range	X		Major effort to provide a safe place for public shooting as well as gun safety training; need to maintain the surrounding lands in its present condition is vital to minimize conflicts in future land uses (DNREC/DFW)
Kent County Communica- tions Center and other Communica- tions facili- ties	Kent County	X	x	(KC)
Emergency Shelters and other disaster reflief facilities assigned by the State Division of Emergency Planning and Operations	Kent County; in the event of natural man-made disaster	X	х	(RC)
State Fire School	Kent County; teaching the skills necessary to supply the fire protection services	x		(KC)

Table 3-17 RECOMMENDED COMMUNICATIONS AND PUBLIC SAFETY

Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Owner- ship	Comments/ Source(s)	
		Public Private	•	
Communication facilities in Magnolia	Kent County; Mid-shore cable TV, Morning News, Newsweek-Sentinal, Dover Post, Milford Chronicle and Delaware State News	X	(KC-ToM)	
Sussex County Emergency Operations Center	Sussex County	x	(SC)	
Diamond State Telephone Company Central Exchange	Sussex County	x	(SC)	

RECOMMENDED ECONOMIC CRITICAL AREAS

(PRELIMINARY)

3.3.4 Economic Critical Areas

A critical area can be represented on a unique requirement or potential for economic development; such as, an area of public or private investment enabling desirable development in the State or those inducing specific projects at strategic points (highway interchanges as example); areas with unique potential for development (sites for reservoirs as example); port facilities or electric generating plants; and areas experiencing a loss or reduction in productivity of food, fiber, minerals or industrial output.

Generally such economic areas can be classified within the following topics:

- -- Highways and Intersections
- -- Airports
- -- Railroads and Yards
- -- Public Utilities
- -- Industrial Sites/Other Employment Centers
- -- Shopping Centers

Highways and Intersections

All federal (Interstate and U. S.), State, and county highways in Delaware are of more than local concern due to their role in the State's economic growth and development and for economic and cultural interactions among communities. Inputs from agencies have identified specific concerns relating to their (local or department) respective portions of the highway system; such as, seasonal high volume traffic, highway crossings, congestion resulting in inconvenience and economic disruption, and maintenance problems. Specific inputs of more than local concern are listed in Table 3-18. The entire State highway system and its interchanges, including the specific items listed in Table 3-18, are recommended for inclusion in the Statewide Critical Areas Plan.

Table 3-18 RECOMMENDED HIGHWAYS AND INTERSECTIONS

Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Owner- ship	Comments/ Source(s)
		Public Private	
Highway Systems	Statewide; which serves the Dover Air Force Base	х	Important for the AFB (DAF/DAFB)
Three highway crossings of the Chesapeake and Delaware Canal	Statewide; C&D Canal constitutes a physical barrier; hence elimination of these crossings will result in gross inconvenience and economic disruption	X ,	(KC)
Route 2 and Route 100 rights-of-way in Elsmere	New Castle County; Route 2 Kirkwood Highway, 80 feet wide, and Route 100 DuPont Road, 56 feet wide are major arteries of the town; new construction is planned for Route 100	x	(NCC-ToE)
Routes 896 and 299 in Middletown	New Castle County; Route 896 North and South, and Route 299 East and West	X	Maintenance issues such as drainage, improper shoulders and potholes (NCC-TOM)
Routes 13 and 113, and Route 8	Kent County; major north-south highways of Routes 13 and 113, and the east-west highway of Route 8 are important transporta- tion routes through the City	х	(KC-CoD)
Routes ll and 44 in Hartly	Kent County; approximately 3/4 of a mile of these routes are within the town limits; main roadway for trucking as an access to Route 301	х	(KC-ToH)
Main traffic arteries of Town of Odessa	New Castle County; high volume traffic on U. S. Route 299, resulting in "bottle necks"	х	Need for a by-pass to alleviate pres- ent congestion (NCC-ToO)
Railroad level crossing for Route 44 in Hartly	Kent County; approximately 300 feet of track crosses Route 44 within the town limits	x	Poor track mainten- ance creates traffic hazard on Route 44 (KC-ToH)

Table 3-18 RECOMMENDED HIGHWAYS AND INTERSECTIONS

			•
Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Owner- ship	Comments/ Source(s)
		Public Private	
Port Mahon Road	Kent County; a two lane road running from Route 9 in Little Creek to the Mahon River and Delaware Bay, Route 89; the only link to a major State boat launching area, State docks and fishing pier; the only access to deepwater along the coast in central Kent County	X	The road is in jeopardy because of erosion along the Delaware Bay shore-line; it is essential to the States' oyster and crab industry; the road also allows for logical support for the maintenance of a fuel supply line essential to Dover Air Force Base (DNREC/DFW)
U. S. Route 13, 113 and 113A, and State Routes 6,8, 10, 12, and 14, and the alignment of the "West Dover By-Pass"	Kent County; provides military accessibility and economic viability	x	(KC), (APFL)
Routes 9 and 42 in Leipsic	Kent County; the routes passing through the town	x	(KC-ToC)
Alternate U.S. 113 in Magnolia	Kent County; heavy summer beach traffic and Sunday traffic on this north-south street of the town	x	(KC-TOM)
Highway inter- changes in Bethany Beach	Sussex County; Delaware Route 1 intersecting with Pennsylvania Avenue at north and south borders of the town; major traffic hazards from seasonal traffic	x	(SC-TBB)
Garfield Park- way in Bethany	Sussex County; from Route 1 to the Beach, congestion in the center of town from seasonal traffic	x	(SC-TBB)

Table 3-18 RECOMMENDED HIGHWAYS AND INTERSECTIONS

Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Owner- ship	Comments/ Source(s)
		Public Private	
Route 404 and Delaware 18 in Bridgeville	Sussex County; summer beach traffic of 60,000 to 70,000 cars per week-end creates traffic jams as long as 3 to 4 miles	X	Congestion and in- convenience to local residents (SC-ToB)
Route 1, at and north and south of Rehoboth	Sussex County; heavily congested in summer with traffic backups a common occurrence	X	(SC-CRB)

Airports

The economic significance and strategic importance of protecting and preserving the public and private airports and the Dover Air Force Base has been illustrated through inputs provided by the federal, State, and county agencies. Airports, as recommended critical areas of Statewide concern, are listed in Table 3-19.

Railroads and Yards

Maintenance of the existing rail system that serves Delaware communities is of vital importance to the economy of the State. Loss of this service, especially in freight movement will adversely affect the transportation of farm products from Southern Delaware, and may create economic problems through closure of certain manufacturing plants which heavily depend on railroads. Hence, these transportation systems are recommended for inclusion in the Statewide Critical Areas Plan. Specific inputs on railroads and yards are presented in Table 3-20.

Port Facilities

The critical concerns raised relating to port and navigation facilities in Delaware are associated with the handling of crude oil (especially in the open lower Delaware Bay) and the maintenance of channels and harbors. A primary problem affecting many smaller, historic ports in the State is the maintenance of channel and harbor depths, since most small ports are located on shallow tidal rivers with slow flushing rates and which receive large amounts of sediments. Because of the potentially areawide economic significance of these facilities, they are recommended as critical areas of Statewide concern. Specific inputs on port facilities, as provided by various agencies, are listed in Table 3-21.

Table 3-19 RECOMMENDED AIRPORTS

Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)		e of er- p	Comments/ Source(s)
		Public	Private	
Greater Wilmington Airport	New Castle County; 13,000 acres; Commuter air service and general aviation and cargo services	X		(US DOT/FAA)
Airport approach, hazard and noise zones	New Castle County; as given in the New Castle County Airport Master Plan	X		(NCC)
Dover Air Force Base Air Installation Compatible Use Zone (AICUZ)	Kent County; areas outlined in red on Figure IV-1 of the AICUZ Study of March 1977. These areas are directly under existing flight tracks and are subjected to aircraft noise; areas referred to as the clear zones, accident potential zones I and II and the height and obstruction criteria referred to in Appendix E of the AICUZ study are of critical importance	X	X	Land uses in these areas must be rigidly controlled in order to continue the flying operations at this installation; similar restrictions apply to the civilian aviation facilities at the site (DAF/DAFB)
Private Airports	Kent County; namely, Chandell Estates Airport, Delaware Air Park, Jenkins Airport, Milford Air Park, and Smyrna Airport; they make Kent County accessible to travelers using business sized airplanes		X	Need to protect these airports, their clear zones and accident po- tential zones (KC)
Delaware Air Park	<pre>Kent County; Dover - Cheswold area; 65 acres; General aviation services</pre>		х	(US DOT/FAA)
Dover Air Force Base	Kent County; the small area of the AFB to be used jointly by civilian and military aircrafts provides access to Dover for sophisticated general aviation of aircrafts	X		(US DOT/FAA)
Sussex County Airport	Sussex County; in Georgetown; 500 acres; private general aviation services and is forecast to provide commuter service	x		(US DOT/FAA), (SC)

Table 3-20 RECOMMENDED RAILROAD AND YARDS

Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Typ Own shi		Comments/ Source(s)
		Public	Private	
Railroad crossing of the Chesapeake and Delaware Canal	Statewide; if eliminated will create gross inconvenience and economic disruption	Х	х	(KC)
B & O Railroad Yard in Elsmere	New Castle County; B & O freight yards and main line; second main line is to be added; major local and national freight handling, GM Boxwood Road plant and right-of-way		х	(NCC-ToE)

Table 3-21 RECOMMENDED PORT FACILITIES

Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Owner- ship		Comments/ Source(s)
		Public	Private	
Port of Wilmington	New Castle County; State's major commercial shipping facility and area of major public investment	Х	X	(NCC-CoW)
Delaware Bay Shipping Channel	Kent County; deepwater shipping channel running from the Atlantic Ocean to the vicinity of Big Stone Beach to the Delaware Memorial Bridge; the only protected deepwater channel on the east coast	X		Economically importan to the entire region (KC)
Facilities at Port Mahon (Port facilities and public facilities)	Kent County; the fuel off-loading facility, the water channel leading thereto, pipeline routes and the associated tank farm	x	x	(DAF/DAFB)
Big Stone Beach holdings of Delaware Bay (Potential Port Facili- ties)	Kent County; both extensive and interconnected properties in the vicinity of Big Stone Beach at the location of the only high and dry land nearest the Delaware Bay in Kent County, and the unique Delaware Bay Configuration which in effect is a terminus for a deep water channel to the Ocean		х	The site has its uniqueness and potential economic value (KC)
Delaware River and Bay Authority Ferry Terminal	Sussex County; in Lewes	X	x	(SC)
Lewes and Rehoboth Canal	Sussex County; also surface water body	x		(SC-CoL)
Broadkill River	Sussex County; runs from Delaware Bay at Broadkill into heart of downtown Milltown; if ever dredged, could provide port facilities	X		(SC-TM)

Public Utilities

The economic security of the Nation, as well as the State depends on existing and proposed energy development facilities. Hence these facilities are recommended as critical areas of Statewide concern. Similarly, specific water supply, waste water treatment facilities, and other utilities network throughout the State are of vital economic importance and are identified as recommended critical areas, when these facilities service more than one jurisdiction. The federal, State, and local agency inputs on public utilities are presented in Table 3-22.

Industrial Sites/Other Employment Centers

Industrial parks, major employers and employment locations of more than local significance are recommended for inclusion in the Statewide Critical Areas Plan. The Division of Economic Development, under the Department of Community Affairs and Economic Development, maintains a list of all industrial parks, major employers, and proposed sites for future industrial development.

The specific items of employment locations provided by State and local agencies are listed in Table 3-23 as recommended critical areas of statewide concern.

Table 3-22 RECOMMENDED PUBLIC UTILITIES

Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)		e of er-	Comments/ Source(s)
		Public	Private	
D P & L Sub- stations and peaking units	Statewide; for the supply of electric power	, . ,	х	Essential utility service (PSC)
Natural gas pipeline and all electric transmissions line crossings of Chesapeake and Delaware Canal	Statewide; elimination of these crossings will create economic disruption	x	х	(KC)
Utility lines for electric, gas, (telephone and cable), water mains	Statewide		X	Disruption of source, danger from explosion etc. (PSC)
Other small water utilities	Statewide		x	
Salem Nuclear Generating Facility	New Castle County; a critical area can be described by a 5 mile arc originating from the center of the facility. entering the State below Augustine Beach and encompassing Port Penn and Delaware City having a population of about 800 urban and suburban citizens		x	More emphasis is being placed on maintaining low population areas near nuclear facilities (DPS/DEPO)
Pumping Sta- tions and facilities of:				
Artesian Water Co. Wilmington Sub. Water	New Castle County New Castle County		x x	To preserve the health and environment of the communities and to provide fire protection (PSC)
Edgemoor Electric Generating	New Castle County; in Edgemoore owned by D P & L		x	Environmental impact and safety (PSC)

Facility

Table 3-22 RECOMMENDED PUBLIC UTILITIES

Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)		e of er- p	Comments/ Source(s)
-		Public	Private	
Delaware City Generating Station	New Castle County, in Delaware City, a major source of electric power		Х	Expansion potential (PSC)
Summit Site	New Castle County; in Summit, proposed location for electric generating facility		x	(PSC)
Operation Center of D P & L	New Castle County; in Newark, controls the flow of electric power throughout D P & L System		x	(PSC)
City of Dover electrical generation and transmission system	Kent County	X	x	Important for the Dover AFB (DAF/DAFB)
Kent County Regional Sewer System	Kent County	x		Important for the Dover AFB (DAF/DAFB)
Kent County waste treat- ment plant and facilities	Kent County; the regional plant for the Milford area	x	x	(KC-CM), (KC)
Pumping stations and facilities of:				
Tidewater Utilities Company	Kent and Sussex Counties		x	To preserve the health and environment of the communities and to provide fire protection (PSC)
Delaware Electric Coop. Substations	Kent and Sussex Counties; for the supply of electric power		X	Essential utility service (PSC)

Table 3-22 RECOMMENDED PUBLIC UTILITIES

Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Owner- ship	Comments/ Source(s)	
		Public Private		
Tidewater Utilities Co.	Kent and Sussex Counties	X	To preserve the health and environment of the communities and to provide fire protection (PSC)	
Sussex Shore Water Co.	Sussex County; Bethany Beach	x	To preserve the health and environment of the communities and to provide fire protection (PSC)	
Water and Supply Co.	Sussex County; Georgetown	x	To preserve the health and environment of the communities and to provide fire protection (PSC)	
Lincoln and Ellendale Substation	Sussex County (Lincoln and Ellen- dale), for the electric power supply	x	Essential utility service (PSC)	
Indian River Electric Generating Facility	Sussex County; in Indian River; large source of electric power	x	Potential expansion of the facility (PSC), (SC)	
Georgetown Sewer Treat- ment Plant	Sussex County; located southeast section of Georgetown, it is a regional facility; 7 acres	х	(SC-ToG)	
South Coastal Wastewater Treatment Plant	Sussex County	x	(SC)	
Lewes-Rehoboth Wastewater Management Facilities (Planning stage)	Sussex County; for Lewes and Rehoboth, and surrounding communities in the unincorporated area of the county	x	(US EPA)	

Table 3-23 RECOMMENDED INDUSTRIAL SITES/OTHER EMPLOYMENT CENTERS

Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type Ownership		Comments/ Source(s)
		Public	Private	
Areas approved or conditionally approved for the growing or taking of shellfish	1) Delaware Bay with the exception of those areas listed as not approved as shellfish growing areas (namely St. Jones Creek, Murderkill Creek, Mispillion River including Cedar Creek, Broadkill Creek, Lewes-Rehoboth Canal, Leipsic River, and an area in the Delaware Bay adjacent to the mouth of the River, Dona (Simon) River, White Creek, and all their tributaries, and an area of Breakwater Harbor and Delaware Bay) within one-half mile of the mouth of these rivers	x	X	Development has encroached on them and brought about closing of portions of these areas due to polluted conditions of the waters (DH&SS/DPH)
	2) Indian River Bay with the exception of a line drawn in a southeasterly direction from Pot Nets Point to Ellis Point, an area of Indian River Inlet extending west from a line drawn between the jetty lights to a line drawn from Burton Island in a southerly direction to the western-most point of South Side Marina including the Southside Marina, and an area near the Inlet known as Balders Pond	X	X	
	3) Rehoboth Bay with the exception of an area adjacent to the mouth of the Lewes-Rehoboth Canal	x	X	·
Industrial Park, Cheswold	Kent County; on southeast section of the town of Cheswold; 80 acres		x	(KC-ToC)

Table 3-23
RECOMMENDED INDUSTRIAL SITES/OTHER EMPLOYMENT CENTERS

Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)		e of er- p	Comments/ Source(s)
		Public	Private	
Campbell's Soup Company, Clayton	Kent County; the plant uses the town's water supply aquifer; large acreage	,	X	(KC-TC)
Dover Capital Complex, Dover	Kent County; the site for city, county and State governmental employment	X		A stable economy for the City of Dover (KC-CoD), (KC)
Dover Air Force Base	Kent County; center of military transport of material for the east coast of the United States	X		Major employer for both Kent County and the City of Dover (KC-CoD), (KC), (KC-CM)
Factory Complex Houston	Kent County; owned by the State and leased to Trapp Packing, Inc., will provide jobs for town residents when in operation	х		(KC-TH)
Industrial Park in Dover	Kent County; employment location, reflecting the economic growth of the City		x	(KC-CoD)
The twenty- five largest employers in Kent County	Kent County; the list of employers available at the Kent County Planning Office	x	X	Economic importance to the County citi- zens; (KC)
DuPont's in Seaford	Sussex County; providing employment to Ellendale residents		x	(SC-ToE)
L. D. Caulk in Milford	Sussex County; providing employment to Ellendale residents		x	(SC-ToE)
Industrial sites in Millsboro	Sussex County; two sites on south edge of the town: N.C.R. Plant with 600 to 2,000 employees; 30 acres; InterContinental Biologies, Inc., employing 75 persons, 29 acres		x	SC-ToM)

Table 3-23 RECOMMENDED INDUSTRIAL SITES/OTHER EMPLOYMENT CENTERS

Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type Owner ship	er-		Comments/ Source(s)
		Public	Private		
Sussex County Industrial Park	Sussex County; on County owned land	х	Х	(SC)	
Nanticoke Homes in Greenwood	Sussex County; located north of town limits, manufacturing modular homes and components, providing employment		x	(SC-ToG)	

3.4 Special Local Area Concerns

It has been noted by OMBP through the Initial Draft Plan development activity that some of the inputs submitted by the local jurisdictions do not fit within the definitions of critical areas (as provided herein). These inputs, therefore, were not included in the category list developed under this plan. Concerns such as sidewalks and drainage ditch repair, vacant lots, local seasonal traffic congestion, closed local factories, and the public safety concerns as identified by beach resort communities cannot be addressed by this Plan.

However, OMBP recognizes that the issues raised by these jurisdictions are of vital concern to them and does plan to conduct further examination and develop recommendations for dealing with them.

These local concerns are being addressed separately from the Critical Areas Plan. Contact will be made with individual jurisdictions to explore their specific problems and to provide assistance by involving other State and county agencies.

4.0 PLAN REFINEMENT PHASES

As previously stated, the preparation of this Initial Draft Plan represents only the first phase in a series of refinement phases toward the Final State-wide Plan preparation and adoption. The remaining components of this Plan Refinement Process are outlined below and schematically shown on Figure 1.

4.1 Refinement of Statewide Plan (Initial Draft)

It is anticipated that approximately sixty (60) days will be provided for review and comment on the Initial Draft Plan. OMBP will invite comments from all municipal, county, State, and federal governments, as well as public and private interest groups. The initial Draft Plan will be revised then to incorporate relevant comments and to address issues raised during the review and comment period.

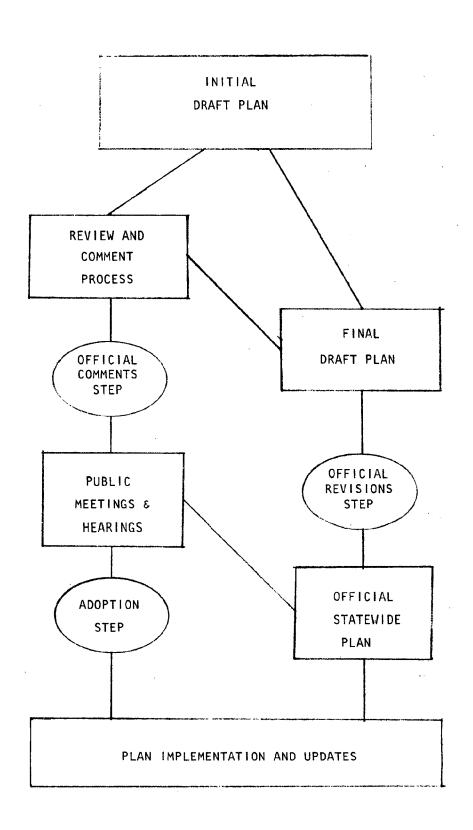
4.2 Preparation of Statewide Plan (Final Draft)

During the Final Draft Plan preparation phase, OMBP will prepare a more final Statewide Plan which will reflect the revisions made to the Initial Draft Plan. The Plan will be distributed to the agencies, jurisdictions and groups receiving the Initial Draft Plan for additional (formal) review and comment. Public meetings will be scheduled to receive comments on the document.

4.3 Public Hearings

After the completion of the Final Draft Plan, OMBP will schedule Public Hearings in each county for purpose of allowing formal comments from all concerns to be submitted and recorded as final input to the Statewide Critical Areas Plan prior to it becoming an offical plan of the State. Final input is not intended to imply that the Plan will then remain unchangeable; the formal review and comment period is used as a key step in reaching official plan status.

-121FIGURE 4-1
STATEWIDE PLAN REFINEMENT PHASES



4.4 Official Statewide Critical Areas Plan

The published information resulting from the series of phases outlined above will be the Official Statewide Critical Areas Plan. The completion of this Plan will satisfy the requirement that is outlined in the enabling legislation (29 <u>Delaware Code</u>, Chapter 92, Land Use Planning Act) and will allow formal interactions of Delaware entities (State, county, and local) on State critical areas to be based on an official plan.

4.5 Critical Areas Plan Implementation and Updating Process

Upon completion of the planned refinement phases, OMBP will directly use the Statewide Critical Areas Plan in accordance with the requirements of the Land Use Planning Act and for official/unofficial activities regarding Critical Areas. 1

A periodic review and updating process will be implemented for purposes of considering additions, deletions and other amendments to the Plan.

^{1.} OMBP plans to use various drafts of the plan when <u>State</u> projects are being planned which could affect a recommended critical <u>area</u>.

APPENDICES

Α.	LOCAL.	CRITICAL	AREAS	PLANS
<i>n</i> .	TOCUT	CKITICAL	MEMO	E TRUM ?

B. LIST OF AGENCIES AND ORGANIZATIONS RECEIVING THE STATEWIDE CRITICAL AREAS PLAN (INITIAL DRAFT)

C. COPIES OF CORRESPONDENCE TO AGENCIES AND ORGANIZATIONS

A. LOCAL CRITICAL AREAS PLANS

Introduction

Senate Bill No. 358, Section 9212 of Chapter 92 calls for the preparation of a plan by each local jurisdiction, designating Critical Areas, and to forward the same to the State Office of Management, Budget, and Planning. The Section 9212 also requires the State OMBP "to prepare a Statewide Plandesignating Critical Areas with due consideration of local input".

The State OMBP had been in touch with the local jurisdictions (56 municipalities and the three counties) since January 1979, concerning the preliminary measures of implementing the Land Use Planning Act (SB 358). By the Memorandum of April 30, 1980, OMBP had requested the local jurisdictions to submit a draft local critical areas plan by July 31, 1980, to OMBP as required by the Senate Bill.

Each of the draft critical areas plans provided by local jurisdictions was evaluated for its specific designations as "critical to more than local residents and government and of more than local concern", by reviewing the specific situation and using the evaluation criteria as presented in Section 3.2 of the text.

After a preliminary evaluation, copies of the input from each jurisdiction were sent to the respective jurisdictions on October 24, 1980. The preliminary evaluation represents the effort to identify what is perceived as areas of more than local concern, but at this stage, they should not be construed to mean that they represent critical areas that are to be incorporated into the Final Statewide Plan. Additional levels of refinement/evaluation of this input will include further review and examination, and public meetings and hearings before the Final Statewide Plan is developed.

Presentation of Local Input

The Local critical areas plans submitted to OMBP, after their preliminary evaluation are presented here in the following order:

New Castle County
Village of Arden to City of Wilmington

Kent County
Bowers Beach to Wyoming

Sussex County
Bethany Beach to South Bethany

LOCAL CRITICAL AREAS FOR New Castle County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Critical Area Category	Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Camership Public Private Private	Private 7 o	Reasons for Concern as Identified by Municipality	Preliminary Evaluation Areas of More Than Local Concern
Unique natural areas	Natural areas	See DNES' Natural Areas Study	×	×	Scarce/unique	×
Forests and State Parks	Major forests	See SCORP and Forest Resources Plan (DNREC)	×	×	Scarce/unique	×
Aquifers/recharge Major and/or areas	Major and/or unique aquifers	See DGS' Formation maps for N.C.C.	×	×	Scarce/unique	×
Flood hazard areas	Major floodplains	See U.S. Army Corps of Engineers Floodplain Sudice (also see FEMA studies)	×	×	Scarce/unique	×
Surface water bodies; other recreation sites	Major rivers, lakes, ponds, inlets	See Recreational Rivers List (HCRS), Rivers Heritage Act; SCORP (DNREC)	×	×	Scarce/unique	×
Vetlands/tīdal Lands	Wetjands	See State Wetlands Act and SCORP	×	×	Scarce/unique	×
	Underwater lands	See Coastal Management Plan (OMBP)	×	×	Scarce/unique	×
ublic beaches	Beaches	See Coastal Management Plan (OMBP)	×	×	Scarce/unique	×

OTE: Explanation of abbreviations in the table are provided at the end of the table for New Castle County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

		FOR DELAWARE (JUNE - AUGUST 1900)	7 1 1	30602	1 1900)	
Critical Area	Name of Site(s)	Brief Description	Type of	of ship	Reasons for Concern as	Preliminary Evaluation
caregory	or Area(s)	(Pocation, Size, etc.)	Public	Private	identified by municipality	Areas of More Than Local Concern
Unique natural areas; other recreation sites	Shorelines and waterfronts	See Coastal Management Plan, Urban Waterfront Study (Cohen for OMBP)	×	×	Scarce/unique	×
Geologic hazard areas	Natural hazard areas	See DGS	×	×	Sensitive	×
Mineral and geologic features	Mineral and geologic features Mineral resources	See DGS	×	×	Scarce/unique	×
Impoundment sites	Existing and proposed major reservoir sites	1) Hoopes 2) White Clay Creek	××	×	Sensitive	××
Airports	Airport approach, hazard, noise zones	See N.C.C. Airport Master Plan	×		Sensitive	×
Waste disposal sites	1) Existing and pro- posed solid waste disposal sites	See 208 General Report and Delaware Solid Waste Disposal Authority	×	×	Sensitive	×

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Critical Area Category	Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)) P 23	Reasons for Concern as Identified by Municipality	Preliminary Evaluation Areas of More
			Publ		Than Local Concern
Waste disposal sites (continued)	Existing and proposed major sewage treatment and handling facilities	See N.C.C. Capital Program and Department of Public Works	×	Sensitive	×
	Existing and program hazardous and radioactive waste disposal sites	See Delaware River Basin Commission Study on this subject	×	Sensitive	×
(No designation)*	Museum - estates	See existing land use and property maps	×	Sensitive	
Properties of Higher Education	Properties of Higher Education Facilities	See school district records and University of Delaware Master Plan	×	Sensitive	
Other recreation sites	Parks	See N.C.C. Department of Parks and Recreation Maps	×	Sensitive	×
Historical/ archaeological sites	1) "Districts"	See National Register of Historic Places	×	Sensitive	X

*Follow-up required

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

		TOO THE WALLEY WOLL		100000	(0001	
Critical Area Category	Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type Ownership	dyste % of the	Reasons for Concern as Identified by Municipality	Preliminary Evaluation Areas of More Than Local Concern
Historical/ archaeological sites (continued)	2) "Cultural Land- scapes"*	See National Heritage Policy Act and National Register	H ×	I ×	Sensitive	
		See National Heritage Policy Act and National Register	×	×	Sensitive	
	4) "Networks"*	See National Heritage Policy Act and National Register	×	×	Sensitive	
Institutions	Schools	See School District Records and State Department of Instruction	×		Sensitive	×
Cultural areas	1) Libraries and other deposits of records	See N.C.C. Department of Libraries	×		Sensitive	
	2) Arts, crafts, and other self-expres- sion centers	See N.C.C. Arts Studio's Records	×	×	Sensitive	
	3) Museums	See Delaware Art Museum Records	×	×	Sensitive	×
*Follow-up required	p]	1		

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Critical Area Category	Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Public nersh of		Reasons for Concern as Identified by Municipality	Preliminary Evaluation Areas of More Than Local Concern
Other recreation sites	Athletic and Recreation Facilities	See SCORP and N.C.C. Parks and Recreation Department	×	Sensitive	ive	×
Communications and public safety	Communications installations	See existing land use and property maps	×	Sensitive	ive	×
(No designation)	Churches	See existing land use and property maps	. M	Sensitive	ive	×
Institutions	1) Hospitals, clinics, etc.	See Wilmington Medical Center and State Depart- ment of Health and Social Services	×	Sensitive	ive	×
	2) Government Administration Buildings	See existing land use and property maps	×	Sensitive	ive	×
Cultural Areas	Civic centers, etc.	See existing land use and property maps	×	Sensitive	ive	1
Communications and public safety	1) Fire Stations	See Fire Marshal's Office	×	Sensitive	ive	×
	2) Police Stations	See State and County Police	×	Sensitive	ive	×

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

		FUR DELAWARE (JUNE	i	AUGUST	. 1960)	
Critical Area	Name of Site(s)	Brief Description	Type of	of hip	Reasons for Concern as	Preliminary Evaluation
Category	or Area(s)	(Location, size, etc.)	Public	Private	Identified by Municipality	Areas of More Than Local Concern
Institutions	Prisons, etc.	State Department of Corrections	×		Sensitive	×
Industrial sites/ other employment centers	Military Bases*	See existing land use and property maps	×	<u> </u>	Sensitive	×
Historic/ archaeological	1) "Buildings"*	See National Register of Historic Places	×	×	Sensitive	×
sares	2) "Structures"*	See National Register of Historic Places	×	×	Sensitive	×
	3) "Sites"*	See National Register of Historic Places	×	×	Sensitive	×
	4) "Objects"*	See National Register of Historic Places	×	×	Sensitive	×
Industrial sites/ other employment centers	1) Major employment concentrations of all kinds	See 1995 Transportation Plan	× .	×	Economic benefits	×
	2) Major concentra- tions of	See existing land use maps		×	Economic benefits	×
	commercial activitiv		_	_		
· · · · · · · · · · · · · · · · · · ·						

*Follow-up required

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Critical Area Category	Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Ownership	hip	Reasons for Concern as Identified by Municipality	Preliminary Evaluation Areas of More Than Local Concern
Industrial sites/ other employment centers (continued	Industrial sites/ 3) other employment Major concentra- centers (continued tions of primary, secondary and tertlary industry	See existing land use maps		×	Economic benefits	×
(No designation)	Areas of major tourism	See Delaware Tourism Policy Study	~ ×	×	Economic benefits	×
Public utilities	1) Major fuel production and storage facilities	See State Energy Office	~	×	Economic benefits	×
	2) Major power gen- eration facilities and substations	See Delmarva Power and Light	×	×	Economic benefits	×
Port facilities	Ports	See Coastal Management Plan (OMBP)	×	×	Economic benefits	×
Airports	Airports	See DVRPC Regional Study	×	——————————————————————————————————————	Economic benefits	×
Railroads and yards	Railroads	See State Rail Plan	×	×	Economic benefits	×
						-

LOCAL CRITICAL AREAS FOR New Castle County (continued)

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

		TOO THE PRINCIPLE OF TH		TEODOW -	0000	
Critical Area	Name of Site(s)	Brief Description	Type of	of hip	Reasons for Concern as	Preliminary Evaluation
Category	or Area(s)		Public	Private	Idencified by Municipality	Areas of More Than Local Concern
Highways and intersenctions; Railroads and yards	1) Potential Transit Alignments	See 1995 Transportation Plan	×		Economic benefits	×
	2) Existing and potential bus routes	See DARI, 1995 Transporta- tion Plan	×		Economic benefits	×
	3) Existing and potential bicycle routes	See N.C.C. Bikeway Study, Special Class I Study for Mill Creek Hundred	×		Economic benefits	×
	4) Abandoned or expendable rights- of-way	See 1995 Transportation Plan, Special Class I Study for Mill Creek Hundred (potential recreational sites)	×	×	Economic benefits	×
	5) Major proposed highway alignments	See 1995 Transportation Plan	×	×	Economic benefits	×
	6) Major roads with excess capacity conditions	See 1995 Transportation Plan	×		Economic benefits	×
			\dashv	1		

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Critical Area Category	Name of Site(s) or Area(s).	Brief Description (Location, size, etc.)	Type of Public Public Puvate Physic	Pavate 2 G	Reasons for Concern as Identified by Municipality	Preliminary Evaluation Areas of More Than Local Concern
Highways and intersections (continued)	7) Major roads with capacity shortages	See 1995 Transportation Plan	×		Economic benefits	×
	8) Major traffic hazard intersections	See DOT Records	×	<u> </u>	Economic benefits	×
Public utilities	Major utility, communication, fuel, and power transmission rights-of-way	The Utility and Energy Companies will probably have to be contacted separately	×	M	Economic benefits	×
-				-		

LOCAL CRITICAL AREAS FOR Village of Arden, New Castle County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

	Preliminary Evaluation Areas of More Than Local Concern	×
ION DEFENDED AND TOOM	Reasons for Concern as Identified by Municipality	Pioneering example of successful town planning embodying garden city design long before they gained acceptance elsewhere. The only village in the nation listed in the National Register of Historic Places, on 2/73, in its entirety.
	Type of Ownership	×
	Type Owners	×
	Brief Description (Location, size, etc.)	160 acres; Arden Trust
	Name of Site(s) or Area(s)	Village of Arden
	Critical Area Category	Historical/ archaeological sites

LOCAL CRITICAL AREAS FOR Village of Ardencroft, New Castle County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Critical Area Category	Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Public of Parents of P	Reasons for Concern as Identified by Municipality	Preliminary Evaluation Areas of More Than Local
Other recreation sites	Ardencroft Park- land	Village of Ardencroft, approximately 20 acres	×	Wooden area and play areas are an integral part of community life and community aesthetics	
	Parkins Run*	Passes through Village of Ardencroft	×	Enhances value of parkland it passes through	
Other recreation sites	YMCA	Adjacent to southeast boundary of the village	×	Is essentially a continuation of village parkland; serves as buffer between village and 195	
			· · · · · · · · · · · · · · · · · · ·		
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		-			

*Follow-up required

LOCAL CRITICAL AREAS FOR Trustees of Ardentown, New Castle County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

	ا ن		
	Preliminary Evaluation Areas of More Than Local Concern		
r 1980)	Reasons for Concern as Identified by Municipality		
nens.i	Private h	Antonion (A.). (Antonion (A.) Antonion (A.)	COMMON TOOL SALES AND LAND LAND LAND LAND LAND LAND LAND
જ 	Type of Public Public Private Private	and the state of t	
FOR DELAWARE (JUNE - AUGUST 1980)	Brief Description (Location, size, etc.)	Town of approximately 106 acres adjoining the B & O Railroad at Harvey Road. The town is owned and managed by the Trust- ees of Ardentown	
	Name of Site(s) or Area(s)		
	Critical Area Category	No Critical Areas (to list as local input)	

LOCAL CRITICAL AREAS FOR Town of Bellefonte, New Castle County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Freliminary Evaluation Areas of More Than Local Concern				 #-480 - 1 (Au				
Preliminary Evaluation Areas of Mo Than Local Concern		×			and the second			
Reasons for Concern as Identified by Municipality	Other recreational facility north of Wilmington	Only small local park for neighborhood kids						
Type of				 		,,,,	,	;
Public Public	×	×						
Brief Description (Location, size, etc.)	Park located at Bellefonte and Rosedale Avenues	Philadelphia Pike				-		
Name of Site(s) or Area(s)	Bellefonte Park	Bellevue State Park	•					
Critical Area Category	Other recreation sites	Forests and State Parks				-	engularitat di Santanani	

LOCAL CRITICAL AREAS FOR Delaware City, New Castle County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

	Preliminary Evaluation Areas of Wore Than Local Concern	×	×			
T 1980)	Reasons for Concern as Identified by Municipality	Continued decline affects recreation possibilities and probable loss of Canal Street; great economic impact	During high water conditions downtown area not passable; great impact on CBD	Deterioration of streets with potholes is greater than town's ability to fund repairs; decline in public morale and economic well-being of town		
AUGUS	Type Officership Public of Private in					į
H H	Public & H	×	×	×		
FOR DELAWARE (JUNE - AUGUST 1980)	Brief Description (Location, size, etc.)	2 acres of waterfront, eroding and deteriorating	High flood hazard area; l acre	8 miles (of streets and highways)		
	Name of Site(s) or Area(s)	Chesapeake and Delaware Canal Bank/Marina	Washington Street	Streets in general (deteriorated)		
	Critical Area Category	Other recreation sites	Flood hazard areas	Highways and intersections	·	

LOCAL CRITICAL AREAS FOR Town of Elsmere, New Castle County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

	·				-
Preliminary Evaluation Areas of More Than Local Concern	X	×	×	X	
Reasons for Concern as Identified by Municipality	High population density	Major local and national freight handling, GM Boxwood Road Plant, and right of way	Major artery	Major artery; new construction planned	
Type of Public Public Private	×	×			
Public Pupl	×		×	×	
Brief Description (Location, size, etc.)	Entire town, some sections more than others; 1.1 sq. mile area	B & O Freight yards and main line. Second main line to be added - 50. acres	Route 2 Kirkwood Highway; 80 feet wide	Route 100 DuPont Road; 56 feet wide	•
Name of Site(s) or Area(s)	Town of Elsmere	B & O Railroad yard	Route 2 Right-of-Way	Route 100 Right- of-Way	
Critical Area Category	Flood hazard areas	Railroad and yards	Highways and intersections		

LOCAL CRITICAL AREAS FOR Town of Middletown, New Castle County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

	Preliminary Evaluation Areas of More Than Local Concern	×	×	
AUGUST 1900)	Reasons for Concern as Identified by Municipality	Drainage, improper shoulders, pot holes	Improper maintenance of crossing gates	
AUGUS	Type of Public Public Physics			
- -	Public g Pu	×	×	
FOR DELAWARE (JOINE -	Brief Description (Location, size, etc.)	Route 896 North and South Route 299 East and West	West Main Street	
	Name of Site(s) or Area(s)	All State main- tained highways in the Town of Middletown (maintenance)	Railroad crossing (maintenance)	
	Critical Area Category	Highways and intersections	Railroads and yards*	

*Follow-up required, (R) revised since October 24, 1980

LOCAL CRITICAL AREAS FOR City of New Castle, New Castle County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

			Type of		Preliminary
Critical Area Category	Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Public S. Proste Sh	Reasons for Concern as Identified by Municipality	Evaluation Areas of More Than Local Concern
Physical/natural areas Aquifer/Recharge	Aquifer	For City water supply	×	To protect present and future water needs of the city	
Stations Wetlands/tidal lands	Wetland	As defined by State Wetland Act			,
	Natural drainage areas	Marshes, dyke stream basins, etc.	×	Serve as retention areas for drainage	
Surface water bodies, other recreation sites	Riverfront		×	Serves as present and future recreational area	×
Physical/other areas Other recreation sites	Open space and recreation zones	Battery Park and all other City parks as well as lands designated for Open Space and recreation All public and private recreation areas (school, Trustees of Commons' lands, etc.).	×		
Impoundment site Public utilities	Reservoirs and water storage facilities		X		

LOCAL CRITICAL AREAS FOR City of New Castle, New Castle County (continued)

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

	Preliminary Evaluation Areas of More Than Local Concern	×		×					
(00)	Reasons for Concern as Identified by Municipality								
COSOU	Public Ownership		∢		×				
3 :	Public mers	× ,	∢	×	×	× 	×	,	
TOP TITLE TOP NOT	Brief Description (Location, size, etc.)		defined by City Zoning Map	Fort Casimir		·		Delaware River	
	Name of Site(s) or Area(s)	1) Historic sites		2) Archaeological site	All churches, schools and public buildings	Fire hall	<pre>City's water, electric, sanitary systems</pre>	Ice Breakers	
-	Critical Area Category	Social Critical areas Historic/archaeological sites			Institutions	Communications and public safety	Economic Critical City's water, Areas electric, san Public Utilities systems	(No designation)	

LOCAL CRITICAL AREAS FOR City of Newark, New Castle County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Critical Area Category	Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Charles of Type of Typ	Reasons for Concern as		Preliminary Evaluation Areas of More Than Local Concern
Aquifers/ recharge areas	Existing wells and aquifer recharge areas	Existing wells and Laird Tract Wells, North aquifer recharge Well Field and South Well areas	X	City's primary water source	ource	×
Flood hazard areas	Newark Open Floodway Districts	Christina Creek Open Floodway District, White Clay Creek Open Floodway District	×	Contain environmentally sensitive lands		×

LOCAL CRITICAL AREAS FOR Town of Newport, New Castle County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

DEFENSION (JOHN - MOGOSI 1700)	ption Ownership Leasons for Concern as Evaluation Areas of More House, etc.) o	×	×	×	×	site X Would like to save the site	ighways and X X	×	×
FON DELEMENTS	Site(s) Brief Description 1(s) (Location, size, etc.)	River	ndustrial ntenance)	rea	fic ones d)*	One very old	fic ones A number of highways d) intersections	ification) One airport	fication)
	Critical Area Name of Site(s) Category or Area(s)	Unique natural Christina areas. Surface water bodies	Flood hazard Newport Industrial areas Park (maintenance)	Cultural areas Newport Area	Institutions (No specific ones identified)*	Historic/archaeo- (No identifica- logical sites tion)*	Highways and (No specific intersections identified)	Airports *(No identification	Railroads and (No identification)

*Follow-up required

LOCAL CRITICAL AREAS FOR TOWN Of Newbort, New Castle County (continued)

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

				+		
Critical Area Category	Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	pe —	ship	Reasons for Concern as Identified by Municipality	Preliminary Evaluation Areas of More
			Publi	Privat		Than Local Concern
ublic Utilities	Public Utilities *(No identification)	One	×			
Industrial sites/ other employment centers	*(No identifica- tion)	One existing site and another under development		×		
				-		
						
			-,,=-,			
						
			· · · · · · · · · · · · · · · · · · ·			
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		Same de la companya del companya de la companya del companya de la	1	7		

*Follow-up required

LOCAL CRITICAL AREAS FOR Town of Odessa, New Castle County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

	Preliminary Evaluation Areas of More Than Local Concern		X X
(00110	Reasons for Concern as Identified by Municipality	This area is immediately adjacent to the Historic Area, National Register, and has great potential, yet it is an eyesore and liability	If the Town of Odessa is to be "saved" for its unique historic heritage, "the bottle neck", it is increasingly becoming for both major north/south and east/west interstate cars and trucks must be alleviated not by widening existing highways, already proposed as a solution by the Highway Department, which would be disastrous, but by a by-pass.
100004	Type of Public Public Private	×	×
<u>.</u>	Type Public mers	×	×
FOR DEFENDED (2005)	Brief Description (Location, size, etc.)	It is at this point that a "bow" in the creek, once navigable by small steamers, enters within the boundaries of the Town; about 5.4 acres involved	Town of Odessa
	Name of Site(s) or Area(s)	Dilapidated canning factory at foct of Main Street and surrounding scenic area; Appoquiniming Creek, large marsh public-owned woodlands, etc.	Main traffic arteries (conjes- tion U.S. Rt 13, U.S. Rt 299)
	Critical Area Category	(No designation)*	Highways and intersections

LOCAL CRITICAL AREAS FOR City of Wilmington, New Castle County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

					•
Preliminary Evaluation Areas of More Than Local Concern	×	×	M	×	
		,			
Reasons for Concern as Identified by Municipality	Management of major water resource	Water resource management; scenic quality; regional recreational opportunities.	State's major commercial shipping facility; area of major public investment.	Major public investment; Social impacts	
Type of Public Public Pravate		×	×		
Public By	×	×	×	×	
Brief Description (Location, size, etc.)	Within New Castle County; Old Mill Stream area, west of the city	From City's northern boundary to Amtrak Bridge	Port of Wilmington Marine facility as well as the Christina River; City boundary to Delaware River	East 12th Street, Wilmington	-
Name of Site(s) or Area(s)	Hoopes Reservoir	Brandywine Rivers; stream valley and banks	Port of Wilmington	Gander Hill Prison Site (under construc- tion)	
Critical Area Category	Impoundment sites	Surface water bodies	Port Facilities	Institutions	-

LOCAL CRITICAL AREAS FOR Kent County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Preliminary Evaluation Areas of More Than Local	Concern	×	×
Reasons for Concern as Identified by Municipality		The C&D Canal constitutes a physical barrier for all of the Delmarva Peninsula. If any of the transportation crossings were eliminated, gross inconvenience and economic disruption would result for those areas south of the C&D Canal	Much of the housing and service sector employment in many local jurisdictions of central Delaware are dependent upon these Base employees. Therefore, the DAFB is not only intrinsically important as a military facility, but it is also critical to the local economy. Likewise, in order for the DAFB to be assured unobstructed take off and landing space, those areas identified in Figure III-2 (Clear Zone, CZ; and Accident Potential Zone) of the Air Installation Compatible Use Zone Study, DAFB, Dover, March, 1977, should be considered critical.
pe of ership	Ъц		
में हैं भाव	ьп		×
Brief Description (Location, size, etc.)	HONAL BOUNDARY		DAFB is the center of military transport of material for the east coast of the United States; (and a major employer in Kent County)
Name of Site(s) or Area(s)	COUNTY'S JURISDICT	All transportation crossings of the Chesapeake and Delaware Canal	Dover Air Force Base (DAFB)
Critical Area Category	AREAS BEYOND KENT	Highways and intersections; Railroads and yards; Public utilities	Airports; Indus- trial sites/ other employment centers
	Name of Site(s) Brief Description Ownership or Area(s) (Location, size, etc.) One control of con	Name of Site(s) Brief Description or Area(s) (Location, size, etc.) or Area(s) (Location, size, etc.) or Area(s) Heasons for Concern as Evaluation Areas of Heasons for Concern Concer	Name of Site(s) Ownership or Area(s) CLocation, size, etc.) Ownership or Area(s) CLocation, size, etc.) Ownership Ownership Ownership Identified by Municipality Areas of Than Location Concern Concern Concern Concern Concern Concern Concern All transportation Chesapeake and Chesapeake and Chesapeake and Chesapeake and Delic Delaware Canal electric transmission lines Verience and economic disruption of the C&D Canal verience and economic disruption of the C&D Canal

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

		F	90 001		
Critical Area Category	Name of Site(s) or Area(s)	Brief Description Ow (Location, size, etc.)	Public Sp. 5	Reasons for Concern as Identified by Municipality	Preliminary Evaluation Areas of More Than Local Concern
Institutions	Kent General and Milford Memorial Hospitals	The service areas of the two local hospitals extend to include all of Kent County	 	The comprehensive health care provided by the two facilities as well as the backup provided by the hospitals in Wilmington, Philadelphia, and Baltimore are critical to a healthy citizenry in Kent County	×
Industrial sites/ other employment centers	Dover Capital Complex	A site for City, County X and State governmental employees	M	The government employment in Kent County is very high in comparison to the other two counties. This has resulted in a stable Kent County economy; as evidenced by the slow but positive climb of historical economic	×
				indicators as a site for City, County, and State governmental employment the Capital Complex is critical to Kent County's economy	•
AREAS WITHIN KENT COUNTY'S Airports Private		JURISDICTIONAL BOUNDARY iirports Chandelle Estates Airport; Delaware Air Park; Jenkins Airport: Milford Air Park;	×)	×
•	3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	and Smyrna Airport		necessary to protect these air- ports, their clear zones and accident potential zones in order to keep Kent County accessible to travelers using business sized airplanes.	÷
		1			

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Critical Area (Site(s) (Location, size, etc.) One of the content as a content areas areas; impoundment areas; impoundent areas; interpretaring area; interpretaring area			TON DEFENDED COOKS - DOGOS TOO	(0001 1000)	
Aquifers recharge creaming areas, including nontidal fresh water wetlands. Adulters recharge areas are defined by University of Delaware Bay Deepwater Shipping Channel Cean to the vicinity of Big Stone Beach; the Shipping Channel Trom the vicinity of Big Stone Beach; the Stone Beach to the vicinity of Big Stone Beach to the Delaware Memorial Bridge Rapes it is the only protected deep water channel on the east Stone Beach to the vicinity of Big Stone Beach; the Beach, the Beach to the vicinity of Big Stone Beach to the Delaware Memorial Bridge Rapes it is the only protected deep water channel on the east Coast. The shipping channel belaware Memorial Bridge Rapes it is the only protected deep water channel on the east Coast. The shipping channel because it is the only protected deep water channel on the east Coast. The shipping channel because it is the only protected deep water channel on the east Coast. The shipping channel because it is the only protected therefore a potential site for grounding and collisions), and in need of constant maintenance (therefore a generator of the publications) and in need of constant maintenance (therefore a generator of the publications) and in need of constant maintenance (therefore a generator of the publications), and in need of constant maintenance (therefore a generator of the publications), and in need of constant maintenance (therefore a generator of the publications), and in need of constant maintenance (therefore a generator of the publications), and in need of constant maintenance (therefore a generator of the publications), and the channel feeds and collisions), and the channel feeds and constant maintenance (therefore a generator of the publications), and the channel feeds and constant maintenance (therefore a generator of the channel feeds belaware River publications).	Critical Area Category	Name of Site(s) or Area(s)			Pr By Ar Th
Aquifers recharge Ground water recharge areas, including nontidal fresh water wetlands. These recharge areas are defined by University of Delaware's Water Resource Conter. Shipping Channel running from the Atlantic Ocean to the vicinity of Stone Baach; the Stone Baach; the Stone Baach; the Stone Baach; to Delaware Memorial Bridge Coast. The shipping channel running from the vicinity of Stone Baach; to Delaware Memorial Bridge Reach; It need to constant maintenance (therefore a generator of Inceded material). And the recipied and the recipied in need of constant maintenance (therefore a generator of dredge material), and in need of constant maintenance (therefore a generator of dredge material). Because this system of deep and shallow channels feeds Delaware River ports, it is economically protected in protestive to the protected and the rest of the			Put	TLA	Concern
Delaware Bay Tunning from the Atlantic Shipping Channel Shipping Channel Shipping Channel Tunning from the Atlantic Coean to the vicinity of Big Stone Big Stone Beach; the Stone Beach to the Delaware Memorial Bridge Big Stone Beach to the Tunning from the vicinity of Big Stone Beach to the Tunning from the vicinity of Big Stone Beach to the Tunning from the vicinity of Big Stone Beach to the Tunning from the vicinity of Big Stone Beach to the Tunning from the vicinity of Big Stone Beach to the Tunning from the vicinity of Big Tunning from the only protected deep water channel on the east coast. The shipping channel Tunning from the only protected deep water channel Tunning from the only protected deep value is critical Brid Stone Beach to the Tunning from the only protected deep water channel Tunning from the only protected deep value is critical Brid Stone Beach to the Tunning from the vicinity of Big Stone Beach to the Tunning from the only protected deep value on the east coast. The shipping channel Tunning from the only protected deep value on the east coast. The shipping channel Tunning from the vicinity of Big Stone Beach to the Tunning from the vicinity of Big Stone Beach to the Tunning from the only protected deep value is critical Brid Stone Beach continuity of deep and shallow Channels feeds made and shallow Channels feeds belaware River Pollutant). Because this System of deep and shallow Channels feeds belaware River Pollutant, is critical Brid Stone The Atlantical Stone The Atlantical Stone Tunning and collisions, and Tunning and collisions and	Aquifers/recharge areas; impoundmen sites	Aquifers areas	H 0	to ensure that refer County will able to obtain the quanity and nat is needed, ther recharge are sontidal fresh must be conside	i- ound ater d
channels leeds belaware kiver ports, it is economically laportant to the entire region,	Port Facilities	Delaware Bay Shipping Channel	pwater Shipping Channel ning from the Atlantic an to the vicinity of Stone Beach; the pping Channel running n the vicinity of Big ne Beach to the aware Memorial Bridge	The deepwater shipping ch running from the Atlantic to the vicinity of Big St Beach, Delaware is critic because it is the only pr deep water channel on the coast. The shipping chan running from the vicinity Big Stone Beach is criti because it is narrow, sha difficult to negotiate (a therefore a potential sit grounding and collisions) in need of constant maint (therefore a generator of dredge materials, a poten pollutant). Because this system of deep and shallo	ean cted st v, or nd nce
				channels leeds Delaware K ports, it is economically luportant to the entire r	er ion,

LOCAL CRITICAL AREAS FOR KENT COUNTY (continued)

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Critical Area Category	Name of Site(s) or Area(s)	? :	be Ers	1	Preliminary Evaluation Areas of More Than Local Concern
	Big Stone Beach holdings of Del. Bay Transportation Company, et al.	Properties held by Del. Bay Transportation Company in the vicinity of Big Stone Beach are both extensive and intercon- nected.	×	The site is at the location of the only high and dry land nearest the Delaware Bay (in Kent County) and the unique Del Bay configuration which in effect is a terminus for a deep water channel to the Ocean Because of the uniqueness and potential economic value of this site, it must be considered.	×
,	Communications	Including cable television, X newspapers, radio stations, television stations, State communications centers, Kent County Communications Center and telephone equipment	×	Communications are vital not only during emergencies, but also to the business, institutional and the social network of Kent County. A democracy cannot survive without open and free communication vehicles.	×
	Conrall System and other rail facilities	Railroad network in Kent County		While the existing railroad network has fallen into a decline, it remains a viable transportation mode for certain bulk cargoes (such as coal going to the Indian River Power Plant). As energy costs escalate the use of rail in Kent County will also increase.	×

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

	Preliminary Evaluation Areas of More Than Local Concern	×	×
(00/1 10	Reasons for Concern as Identified by Municipality	However, by definition each area described would contain some feature of unique or typical natural occurence in its situation; type of plant life; animal plant community; geological, archaeological, or aesthetic character.	In the event of natural or man- made disaster, the protection and aid given to survivors is of primary importance. Food and emergency equipment are now stockpiled in facilities assigned by the State Division of Emergency Planning and Operations. These facilities are critical.
TOOOU	Type of Public Private Private	×	×
3	Public & H	×	×
	Brief Description (Location, size, etc.)	Each of the fourteen sites in Kent County are rated as to the nature of their criticalness.	Facilities that are assigned by the State Division of Emergency Planning and Operations
	Name of Site(s) or Area(s)	All those areas identified in L. M. Fleming's Delaware's Out- standing Natural Areas and their Preservation, Delaware Nature Education Society, 1978; as revised by the deletion of the Hartley Carolina Bay and the addition of the Hughes Early Man Complex.	Emergency shelters and other disaster relief facilities
	Critical Area Category	Unique natural areas	Communications and public safety

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Preliminary Evaluation Areas of More Than Local Concern	t to	×	eby x
Reasons for Concern as Identified by Municipality	While all employers of Kent County's citizens are important, it may not be accurate the list all employers as critical. For convenience, the twenty-five largest employers in Kent County assuredly can be labeled critical to the economy of Kent County.	The safety from fire provided through the volunteer fire companies (and the Fire School which teaches the skills necessary to supply this service) is of critical importance to Kent County.	The flood hazard areas should be considered critical. The principle that drainage-ways are valuable because they remove excess water and thereby mitigate potentially damaging flooding, applies also to tax ditches.
Type of shalls of the ship	X	×	×
Public & L	×	×	×
Brief Description (Location, size, etc.)	The twenty-five largest employers in Kent County. This list of employers is available from the Kent County Planning Office	Fire protection is of major economic importance in considering the location of commerce, and of critical importance in the location of our residences.	Flood hazard areas, as defined by the Federal Emergency Management Agency, currently controlled by Federal regulations.
Name of Site(s) or Area(s)	Employers in Kent County	Fire stations/ State Fire School	Flood hazard areas and other drainage facilities in- cluding tax ditches
Critical Area Category	Industrial sites/ other employment centers	Communications and public safety	Flood hazard areas

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

	Freliminary Evaluation Areas of Wore Than Local Concern	×	×
1 1300)	Reasons for Concern as Exidentified by Municipality Ar	Because of the necessity to stockpile liquid solid and gasœus fuels, as setoff against emergency shortages, major fuels storage facilities should be considered critical. The disastrous impacts of running out of fuels for electric generation, air craft propellants, or household heat speak to the critical need for storage of these fuels	Already any action involving the spending of Federal money must consider the impacts upon historic properties. This nomination would expand the principle of protecting our heritage to every decision made by government in Kent County
20000	Type of Danership Public Physical	×	×
<u>a</u>	Public of Typ	×	×
TON DEFINITION COURT WOODS	Brief Description (Location, size, etc.)	(Storage facilities for electric generation, air-craft propellants, and household heating.)	
	Name of Site(s) or Area(s)	Major fuel storage facilities	Buildings or sites on the National Register of Historic Places
	Critical Area Category	Public Utilities	Historical/ archaeological sites

LOCAL CRITICAL AREAS FOR KENT COUNTY (continued)

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Critical Area Category	Name of Site(s) or Area(s)	Brief Description (Location, size, etc.) c	Public on Public of Physics of Physics hip	Reasons for Concern as Identified by Municipality or County	Preliminary Evaluation Areas of More Than Local Concern
Public utilities; Waste disposal sites	Kent County sewage treatment plan and pipeline	Serve the sewage disposal X needs of the major pop-ulation concentration in Kent County.		The economic and environmental consequences of running separate sewage treatment plants are prohibitive. Therefore, the protection and enhancement of this facility is critical.	×
Institutions	Major or unique public or private medical, convele- scence and health care centers	(Other medical facilities X in Kent County providing health care, by early or out-patient treatment).	×	In addition to the two major hospitals serving the Kent County region, many other medical facilities help health care by early or out-patient treatment, or by providing nursing care outside of the hospital environment. Without these additive health care facilities the morbidity and mortality of Kent Countians would increase.	X X
Waste disposal sites	Sanitary landfill site (Sandtown)	Solid waste disposal site X to be run by the Delaware Solid Waste Authority.		The disposal of solid waste and the potential for recycling these wastes constitute a major environmental issue in jurisdictions with limited land area. The solid waste disposal site to be run by the Delaware Solid Waste Authority should be listed as critical in Kent County because of the need to avoid ground water contamination.	×

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

		•			
Critical Area Category	Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of the state	Reasons for Concern as Identified by Municipality	Preliminary Evaluation Areas of More Than Local Concern
Other recreation sites	County and State parks and recreation facilities	All County and State facilities used for public active and/or passive recreation in Kent County.	×	The physical benefits of out- door recreation are an important ingredient in the quality of life in the County and are explained in the State Outdoor Recreation Plan. In order to avail the Kent County Citizenry of these benefits in perpetuity, parks and recreational facilities should be designated critical.	×
Highways and intersections	East/West and North/East/South Corridors of highway transportation	U. S. Routes 13, 113, and 113A, and State Routes 6, 8, 10, 12, 14 and the alignment of the "West Dover By-Pass".	×	The twin justifications for highways are: (1) military accessibility and; (2) economic viability. In order to ensure the mobility of people, goods and services within and through Kent County, major highways must be maintained in acceptable operating conditions.	×
Public utilities	Electric and natural gas transmission lines		×	Electricity and natural gas supply the major energy sources of heat for most homes in Kent County. Since heat is a basic need of homes during the winter the conduits for these energy sources should be deemed critical.	×

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Critical Area Category			Person of		
ř, ř	Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	r ii —	Reasons for Concern as Identified by Municipality	Fre-ininary Evaluation Areas of More
			Publi		Than Local Concern
Wetlands/tidal Slands	State wetlands	Those areas identified on the Wetlands Atlas held by the DNREC	×	The principles motivating the Wetlands Act are of critical importance to Kent County. The Wetlands also provide the foodstuff for marine fin and shellfish, both of economic and importance to Kent County.	X
Forests and State S Parks; Unique f natural areas	State and federal forests and wild- life areas	Natural areas in Kent County as articulated in the State Outdoor Recrea- tion Plan.	×	The preservation of natural areas in Kent County is important from the standpoint of conservation, as well as, outdoor recreation (as articulated in the State Outdoor Recreation Plan).	×
Minerals and Meeologic features	Mineral resources	A list of mineral resources is available from the Delaware State Geologist.	×	Whether Kent County is allowed to be a mineral exporter, or not, does not negate the importance of protecting what unique mineral resources exist.	×
				Sand and gravel suitable for construction purposes, clay of a type that will serve for brick making and all other mineral resources which are known or yet to be discovered must be reserved for mining.	

LOCAL CRITICAL AREAS FOR Town of Bowers Beach, Kent County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

	· .		 		 	
	Preliminary Evaluation Areas of More Than Local Concern	×				
	Reasons for Concern as Identified by Municipality	Natural area				
1 200	Type of Public Puvate	×				
	Owner of Public ship					
TON PREMIUM (SOME	Brief Description (Location, size, etc.)	West edge and north edge of the town				
	Name of Site(s) or Area(s)	Wetlands				
	Critical Area Category	Wetlands/tidal lands				

LOCAL CRITICAL AREAS FOR Town of Cheswold, Kent County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Preliminary Evaluation Areas of More Than Local Concern		X	×	
Reasons for Concern as Identified by Municipality				
Type of Public Physic P		×	×	
Public Pup	×			
Brief Description (Location, size, etc.)	East Main Street	Runs North and South through Center of Town	On Southeast section of Town limits comprised of some 80 acres	
Name of Site(s) or Area(s)	Fire Station	Railroad	Industrial Park	
Critical Area Category	Communications and Fire Station Public Safety	Railroads and Yards	Industrial Sites/ Other Employment Centers	

LOCAL CRITICAL AREAS FOR Town of Clayton, Kent County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Name of Site(s) Brief Description Ownership or Area(s) (Location, size, etc.) Ownership in the size of
St. Joseph's Large acreage north side Industrial School (currently vacant) Campbell's Soup Company Large acreage north side Tounty acreage in Kent Tounty acreage in Ken
(No designation) Industrial Schoo (currently vacan currers Aquifers/recharge areas (No designation) Undeveloped land

NOTE: Town of Clayton maintains and agrees with Kent County's Critical Areas Plan

LOCAL CRITICAL AREAS FOR City of Dover, Kent County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

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Critical Area Category	Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Public of Private of Private	Private H	Reasons for Concern as Identified by Municipality	Preliminary Evaluation Areas of More Than Local Concern
Institutions; Industrial sites/ other employment centers	Dover Capitol Complex	Site for City, County and State governmental employment	×		Capitol Complex has resulted in a stable City of Dover economy	×
Institutions	Educational and Institutional uses	Wesley College, Delaware State College, Delaware Technical and Community College, public and parochial schools	×	×	Serve beyond the limits of the City of Dover	×
Flood hazard areas	Flood hazard areas and other drainage facilities (in-cluding tax ditches)	Those defined by Federal Emergency Management Agency and other drainage- ways	×		Valuable because they remove excess water and thereby mitigate potentially damaging flooding	×
Industrial sites/ other employment centers Airports	Dover Air Force Base	City of Dover	×		Major employer in Kent County and City of Dover; center of military transport of material for the east coast of the United States	×
Historic/archaeo- logical sites	Buildings or sites of historic importance	Those in the Historic Zone or on the National Register of Historic Places	×	×	Expression of the heritage of the City which brings many visitors and in turn a good economic benefit to the City	×

LOCAL CRITICAL AREAS FOR City of Dover, Kent County (continued)

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

		FOR DELAWARE (JUNE - AUGUST 1980)	4 - S	Sacas	T 1980)	
Critical Area Category	Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Comership	Private of	Reasons for Concern as Identified by Municipality	Preliminary Evaluation Areas of More Than Local Concern
Industrial sites/ other employment centers	Industrial park and manufacturing zones	Dover		×	Employment location for people from Dover, Kent County and nearby State of Maryland, reflects the economic growth of the City	×
Highways and intersections	Highways	Route 13 and 113 the major north-south highways, and Route 8, the east-west highway	×		Important transportation routes through the City	×
Institutions	Kent General Hospital	Dover		×	Serves the lower part of the State and nearby Maryland area; critical to the health of the citizens	×
Public utilities	Electrical and natural gas transmission lines	City of Dover Electric Department serving 88 sq. miles	×	×	Major energy sources essential for homes and industries	×
Railroads and Yards	Conrail system and other rail facil- ities	Dover	×	×	A viable transportation mode for Dover industrial sites as well as for the lower peninsula; supplying coal to the Indian River Power Plant and in future may supply coal for the City of Dover Power Plant	×
						١.

LOCAL CRITICAL AREAS FOR City of Dover, Kent County (continued)

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Preliminary Evaluation Areas of More Than Local Concern	×××	<u>.</u>
Reasons for Concern as Identified by Municipality	Major economic importance in locations of commerce and residential Vital in times of emergency and to the commerce and the social net work of the City.	The survival of these shopping centers depends on an area from the Delaware Chesapeake Canal to the Atlantic Ocean
Public of Private of Private p	××	×
Public Sign	×	
Brief Description (Location, size, etc.)	Volunteer Fire Companies in Dover and other Kent County communities Cable TV, newspapers, radio stations, television stations, tate communications stations, Kent County communication center, Dover fire department and Dover police	Dover
Name of Site(s) or Area(s)	Fire Stations 2) Communication Facilities	Regional Shopping Centers
Critical Area Category	Communications and Public Safety	Shopping centers

LOCAL CRITICAL AREAS FOR Town of Farmington, Kent County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

		TON DEFENDANCE (SOME	50w - 5	AUGUST 1900)	
Critical Area Category	Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Ownership	Reasons for Concern as P Identified by Municipality	Preliminary s Evaluation Areas of Wore Than Local
			Pub		Concern
No critical areas (to list as local input)		A small community of 109 people, with 47 houses, 2 churches, 1 store and 1 fire station			
					·
				Establis TS Mayor	
				Nova (F1000-1500-2	······································
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				· · · · · · · · · · · · · · · · · · ·	
					nda anak kan ifo dil a
					-, e ye me - 10 ⁻⁷⁰

LOCAL CRITICAL AREAS FOR Town of Felton, Kent County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Preliminary Evaluation Areas of More Than Local Concern		×	×	
Reasons for Concern as Identified by Municipality	Protection against fire in the town	To educate the children	Education facility for the town children	
Type of cupition of the off				
Public of ty	×	×	×	
Brief Description (Location, size, etc.)	Fire House and parking lot in town	School and 18 acres located outside the town	School and 160 acres, located 3 miles from the town	
Name of 'Site'(s) or Area(s)	Felton Fire Comp.	1) Lake Forest Elementary School	2) Lake Forest High School	
Critical Area Category	Communications and public safety	Institutions		

LOCAL CRITICAL AREAS FOR Town of Frederica, Kent County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

		FOR DELAMARE TOTAL	1	200	WORDS TAGO)	
Critical Area Category	Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type Officership of Type of Ty	Physic h	Reasons for Concern as Identified by Municipality	Preliminary Evaluation Areas of More Than Local Concern
Flood hazard areas	Flood hazard areas; also wet- lands	As defined by flood plain management study	×	1		×
Historic/ archaeological sites	Frederica Historic District	Frederica Historic Refer to National Register District of Historic Places	×		Group of structures of both historic and architectural significance	×
Institutions	Lake Forest East Elementary School	On Route 12 on west end of town	×		The town's only educational facility	×
Shopping centers	Business District of Town	Between Front and David Streets on both sides of Market Street and extend- ing north and south on Market Street to adjacent corners	× .		Major sources of goods in town and some resident employment	
Shopping centers	Commercial strips along Route 113A	On both sides of Route 113A		×	Area of positive commercial development with possibility for more	
Communications and public safety	Frederica Fire Hall	On Southwest corner of Route 113A and Front Street	×		Town's fire and emergency services	

LOCAL CRITICAL AREAS FOR Town of Hartly, Kent County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Preliminary Evaluation Areas of More Than Local Concern	×	×		
Reasons for Concern as Identified by Municipality	Poor maintenance of track creates a traffic hazard. The railway could, also be a more important means of transportation to the people of the town because of its location but because of the minimal use of the rail, it is practically ineffective	These routes serve as a main roadway for trucking as an access to Route 301	The Hartly branch of the Farmer's Bank was closed, because the bank was forced to cut costs as a result of poor management	
Type of	×		×	
Public & Stidua		×		
Brief Description (Location, size, etc.)	Approximately 300 feet of track crosses Route 44 within the town limits	Approximately 3/4 of a mile of these routes are within the town limits	Located in town	
Name of Site(s) or Area(s)	Railroad (level crossing for Route 44) (Maintenance)	Routes 11 and 44	Farmers Bank (closed)	
Critical Area Category	Railroads and yards, highways and intersections	Highways and intersections	Industrial sites/ other employment centers	

LOCAL CRITICAL AREAS FOR Town of Houston, Kent County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

) }		
Gritical Area Category	Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Public San Public Property Pro	Private S. c.	Reasons for Concern as Identified by Municipality	Preliminary Evaluation Areas of More Than Local Concern
Communications and public safety	Houston Fire Hall	Located in town	×		As per County plan	
Railroads and yards	Conrail system		×	<u>- </u>	As per County plan	×
Industrial sites/ other employment centers	Factory complex	Owned by State of Delaware, and leased to Trapp Packing, Inc.	×	Z Ø I	When in operation, it will supply many jobs for town residents	×
·						

LOCAL CRITICAL AREAS FOR Town of Kenton, Kent County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Preliminary Evaluation Areas of More Than Local Concern		
Reasons for Concern as Identified by Municipality	Involves a number of jobs for the town residents	
Type of Caretain Type of Public Private	×	
Public g H		
Brief Description (Location, size, etc.)	This large factory with all tanks and equipment necessary to package pickles and kraut is for sale or rent	
Name of Site(s) or Area(s)	Van Holten Pickle Factory (continued utilization of facility is desired as source of employment)	
Critical Area Category	Industrial sites/ other employment centers	

LOCAL CRITICAL AREAS FOR Town of Leipsic, Kent County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

		FOR DELAWARE (JUNE - AUGUST 1980)	E - A	nens	1980)	
Critical Area Category	Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type Ornershorte	Private Sh of	Reasons for Concern as Identified by Municipality	Preliminary Evaluation Areas of More Than Local Concern
Surface water bodies	Leipsic River	Running through the town	×	2.0 Parent arriva		×
Wetlands/tidal lands	Marsh lands	North and east of town	×	×		×
Highways and intersections	Routes 9 and 42	Passing through the town	×			×
Port Facilities	Wharves	Small wharves owned by individuals		×		
	·		·			
· · · · · · · · · · · · · · · · · · ·						

LOCAL CRITICAL AREAS FOR Town of Little Creek, Kent County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFI) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Preliminary Evaluation Areas of More Than Local Concern		
Reasons for Concern as Identified by Municipality	"County and State government have stood by and watched"	
Public of Public private priva	×	
Public St. Public		
Brief Description (Location, size, etc.)	Town of Little Creek, plagued with drainage problems caused by individuals who have filled-in and re-routed ditches for their benefit	
Name of Site(s) or Area(s)	Drainage system	
Critical Area Category	Public utilities	

LOCAL CRITICAL AREAS FOR Town of Magnolia, Kent County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

		TON DEFENDED SOME		400004	1700)	
Critical Area Category	Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of	Private or of the principle of the princ	Reasons for Concern as Identified by Municipality	Preliminary Evaluation Areas of Wore Than Local Concern
Historic/ archaeological features	1) John B. Lindale House	Main Street; 1.5 acres		×	Listed in National Register of Historic Places	×
	2) Other historic buildings	1) Lowber House on Main Street; 2) McDonald Barber Shop, Walnut Street; 3)Magnolia Methodist Church on Main Street		×× ×	For historic preservation	×
Communications and public safety	Magnolia Fire Station	Magnolia	×	×	Continually growing, the Magnolia Fire Company is "one of the finest in the State", and needs continued support of the community, State and federal government.	
(No Designation)	Condemned Grace Property (Health and fire bazard)	Magnolia		×	A major fire and health hazard, and needs to be sold at Sheriff's sale for individual or community use	
(No Designation)	McIlvaine Element- ary School (Former site of)	In Magnolia, grades 1 and 2		×	A traditional part of the Community; the closure of the school for use as a warehouse is disheartening.	
				+		

LOCAL CRITICAL AREAS FOR Town of Magnolia, Kent County (continued)

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

•				
Critical Area Category	Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Connership	Reasons for Concern as Evaluation Identified by Municipality Areas of More Than Local Concern
Public utilities	Major aquifer - Magnolia water system	Looped for adequate water pressure by a \$200,000 HUD - Water Improvement Project; will be adequate for domestic use and fire fighting	×	Present 1928 pipes should be replaced, and a tower with greater capacity will be needed to support the continued community growth and fire company usage. Additional funds essential
(No designation)	Noise pollution	From traffic on Alternate U.S. 113 and the aircraft from Dover Air Force Base	× ×	Noise pollution is increasing, and is an annoyance at periodic times
(No designation)	Sidewalks (lack of)Magnolia	Magnolia	×	Needed for public safety. Due to lack of town revenue, additional funds needed
Public Utilities, Communications and Public Safety	Utility lines	Above ground, on both sides of the streets, only six feet from the roofpeaks	×	Resulted in catastrophic accidents; need to be brought underground for future safety
Highways and intersections	Alternate U. S. 113The Highway (seasonal and traffic) the roa roa put	The road incorporates North and South Main Streets of the town; cracks on the roadway, curbs not cleaned out by the State, nor painted	×	Lack of up-keep is noticeable and unattractive; heavy summer beach traffic and Sunday traffic require the town to hire off-duty State troopers to control traffic offenses
				•

LOCAL CRITICAL AREAS FOR Town of Magnolia, Kent County (continued)

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN

	Preliminary Evaluation Areas of More Than Local Concern		×			
AUGUST 1980)	Reasons for Concern as Identified by Municipality	These constitute the commercial employment in the town				
	Type of Comership Public Private Private	×	×			
I E	Public g H			 	alle and the second	 _
FOR DELAWARE (JUNE	Brief Description (Location, size, etc.)	A grocery store, ministore with gas pumps, a beauty shop, car dealership, antique shop	Mid-shore Cable TV, newspapers; Morning News, Newsweek-Sentinal, Dover Post, Milford Chronicle, Delaware State News			
	Name of Site(s) or Area(s)	Commercial business	Communications			
	Critical Area Category	Industrial site/ other employment centers	Communications and public safety			

LOCAL CRITICAL AREAS FOR City of Milford, Kent County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

	Preliminary Evaluation Areas of More Than Local Concern	×	×	×	×	×
	Reasons for Concern as Identified by Municipality	Besides being the center of military airlift for the eastern United States, its economic impact, being a major employment center is critical to the Milford area	Provides comprehensive health care to the Milford area residents hence, an essential and critical area	To ensure that sufficient and high quality water is available to the Milford area residents	Transportation route for coal supply to the Indian River Power Plant, for generation of electricity to serve the Delmarva Peninsula	This area of protection is essential and critical to the Milford area
	Type of Commership		×	×	×	·
	Public g Typ	×		×		×
	Brief Description (Location, size, etc.)					Serves the entire Milford area
والمرافق والمراقب وال	Name of Site(s) or Area(s)	Dover Air Force Base	Milford Memorial Hospital	Aquifer recharge areas	Conrail system	Carlisle Fire Station and equipment
	Critical Area Category	Airports Industrial sites/ other employment centers	Institutions	Aquifers/recharge areas	Railroads and yards and public utilities	Communications and public safety

LOCAL CRITICAL AREAS FOR City of Milford, Kent County (continued)

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

	\$			t		
Critical Area Category	Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of othership	Private h	Reasons for Concern as Identified by Municipality I	Preliminary Evaluation Areas of More Than Local Concern
Flood hazard areas	Flood hazard areas	As defined by Federal Emergency Management Agency, and controlled by Federal regulations	×	×	Critical to the Milford area	×
Public utilities	Kent County waste treatment plant and facilities	Serves the Milford area	×	erick of the state	Since it is a regional plant, and there are no other means of disposing of the sewage, the plant and facilities are considered critical	×
Industrial sites/ other employment centers	Employers of the Milford area	All employers in the City	×	×	They create the necessary mix to enhance a viable and well balanced economy, and hence critical to the economy of Milford and the area	×
Public utilities	Utility Lines and facilities		×	×	They serve the basic needs of life, and are necessary to protect the safety and welfare of the community	
-				and the second s		

LOCAL CRITICAL AREAS FOR Town of Smyrna, Kent County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Category o	Name of Site(s)		Type of		
(1)	or Area(s)	(חסרמרדסווי פוצבי בררי)	Public Private	1p Identified by Municipality	Preliminary Evaluation Areas of More Than Local Concern
	Schools E	East Elementary, Smyrna High, Smyrna Middle, North Elementary, West Elementary and the Smyrna School District Administration Building	×	"A land use which has either a positive or adverse impact upon the physical, economic or social environment of the Town bf Smyrna, and is of more than local concern".	×
2) 4	Allan McLane SArmory	State of Delaware	×		×
3) [Department of Corrections	State of Delaware	×		×
H (7)	Home and Subjected Hospital	State of Delaware	×		×
3) 1	U. S. Post Office		×		
(No designation) Senior Unit -	Senior Citizens Unit - Peach Circle	Delaware Housing Authority			
(No designation) McLa	McLane Gardens	Delaware Housing Authority	· · · · · · · · · · · · · · · · · · ·		
Highways and High Intersections	Highways and roads	All State-maintained roads and highways	×		X (Route 13)
Forests and State Game Parks	Game and Fish Land	State of Delaware	×		X

LOCAL CRITICAL AREAS FOR Town of Viola, Kent County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

1	l o				 7
	Preliminary Evaluation Areas of Wore Than Local Concern	×	×	of Viola	
	Reasons for Concern as Identified by Municipality	Viable transportation mode, especially when energy costs escalate.	Major sources of energy for homes and home appliances	covers the necessary critical areas	
)	Type of Public Public Private Private		×	Plan co	:
3	Public & F	×			
	Brief Description (Location, size, etc.)	Railroad passing through the town providing passenger service to Wilmington - Philadelphia and their airports*	For the town and beyond	unty's Draft Critical Areas	
	Name of Site(s) or Area(s)	Conrail system	Electric and natural gas transportation line and fuel oil supply	The town considers that Kent County	
	Critical Area Category	Railroads and yards	Public utilities	NOTE: The town cor	

*Follow-up required

LOCAL CRITICAL AREAS FOR Town of Woodside, Kent County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Preliminary Evaluation Areas of More Than Local Concern				,				
Reasons for Concern as Identified by Municipality	No drainage; water lays at all times	Water does not run off;ditches stopped up with hard rain, much flooding				-		
Type of Ownership Public Publi	×							4
Public & Stiduq		×			 			
Brief Description (Location, size, etc.)	Town of Woodside, 12 acres	Whole town of Woodside						
Name of Site(s) or Area(s)	Proposed housing development (lack of public utilities	Drainage ditches					:	
Gritical Area Category	(No designation)	(No designation)						

LOCAL CRITICAL AREAS FOR Town of Wyoming. Kent County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (1998)

	Preliminary Evaluation Areas of More Than Local	Concern	×	×	×	×			
ST 1980)	Reasons for Concern as Identified by Municipality				Also, it is under historical designation				
AUGUST	Type of Ownership	hq	× 			×		 	
I 到	blic & F	pd	×	×	×	×			
FOR DELAWARE (JUNE	Brief Description (Location, size, etc.)	***************************************	Map #H 10 001 0500 01	Old North Road	Center of Town	Runs through center of town			
	Name of Site(s) or Area(s)		1000 nazard area	William B. Simpson Elementary School (Caesar Rodney School District)	1)Railroad station	2)Conrail tracks			
	Critical Area Category	Flood books	rtood nazard areas	Institutions	Railroads and yards				

LOCAL CRITICAL AREAS FOR Sussex County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

	Preliminary Evaluation Areas of More Than Local	×	×	×	×	×
	Reasons for Concern as Identified by Municipality					
j	Type of ownership public to him	×	×			×
	Public Owner P	×	×	×	×	×
	Brief Description (Location, size, etc.)	Those areas identified and registered as Delaware's Outstanding Natural Areas by the Delaware Nature Education Society Publication by Lorraine M. Fleming				All those areas identified in the Flood Insurance study prepared by Federal Insurance Administration, U. S. Department of H.U.D. and published May 1976
	Name of Site(s) or Area(s)	Unique natural areas	1) All public beach areas along the Atlantic Ocean and	Delaware Bay West 2) Cape Henlopen State Park	3) Delaware Seashore State Park	Flood hazard areas
	Critical Area Category	Unique natural areas	Public Beaches			Flood hazard areas

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

	Preliminary Evaluation Areas of More Than Local Concern	×	×	×	×	×	×	×	×	×	×
	Reasons for Concern as Identified by Municipality		•								
10000	Type of Ownership				·_ · · _ · · · · · · · · · · · · · · ·			·			
<u>.</u>	Type Owners Public	×	×	×	×	×	×	×	×	×	× .
TOP TOWNSTAN NO.	Brief Description (Location, size, etc.)										
	Name of Site(s) or Area(s)	l) Indian River Inlet	2) Atlantic Ocean	3) Delaware Bay	4) Indian River Bay	5) Rehoboth Bay	6) Assawoman Bay	7) Indian River	8) Nanticoke River	9) Broadkill River	10) Broad Creek
	Critical Area Category	Surface water bodies									

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Critical Area Category	Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Ownership	Ship of other	Reasons for Concern as Identified by Municipality	Preliminary Evaluation Areas of More Than Local
			nđ	μď		Concern
Surface water bodies (continued)	11) Roosevelt Inlet		×			×
	12) Lewes and Rehoboth Canal		×			×
	13) Assawoman Canal		×			×
	14) The several Crees, Ponds, and Tax Ditch,Systems that provide necessary drainage for all of Sussex County		×	×		
Wetlands/tidal lands	Wetlands/tidal lands	Those areas already identified by State Wet-lands Maps and under the jurisdiction of Department of Natural Resources and Environmental Control (For enforcement)	×	×		×
State Parks and Forests	1) Cape Henlopen State Park		×			×
				+	m de seign - e de la grand programme de la grande de la g	

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

				100001		
Critical Area	Name of Site(s)	Brief Description	Type of	of thtp	Reasons for Concern as	Preliminary Evaluation
caregory	or Area(s)	(Location, Size, etc.)	Public	Private	idencilied by municipality	Areas of More Than Local Concern
State Parks and Forests (continued)	State Parks and 2) Forests (continued) Delaware Seashore State Park		×			×
	3) Trap Pond State Park		×			×
Aquifers/recharge areas	Aquifers and recharge areas	Areas defined by the University of Delaware Water Resources Center	×	×		×
Publ io utilities	South Coastal Wastewater Treatment Plant		×			×
Waste disposal sites	1) County landfill sites		×			M
	All wastewater treatment plants located in the incorporated areas of the County		×	•		
				· · · · · · · · · · · · · · · · · · ·		
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PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

- 1	T 4\	7						
	Preliminary Evaluation Areas of More Than Local Concern	×	×	×	×	⋈ .	×	×
	Reasons for Concern as Identified by Municipality							
	Type of Public Physic			×	×	×		×
	Public Pupl	×	×				×	×
	Brief Description (Location, size, etc.)	Georgetown Campus	Stockley	Milford	Lewes	Seaford	10	 Those areas that have been identified as being rich in archaeo- logical values
	Name of Site(s) or Area(s)	1) Delaware Technical and Community College	2) Hospital for the Mentally Retarded	3) Milford Memorial Hospital	4) Beebe Hospital	5) Nanticoke Hospital	Sussex County Emergency Operations Center	Historic/archaeo- logical sites
	Critical Area Category	Institutions					Communications and Sussex County public safety Emergency Ope	Historic/ archaeological sites

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

)re			· · · · · · · · · · · · · · · · · · ·			
Preliminary Evaluation Areas of More Than Local Concern	M	×	×	×	×	×
Reasons for Concern as Identified by Municipality						
Type of Ownership	×				×	×
Public g Ty	×	×	×	×		
Brief Description (Location, size, etc.)	2) Those areas on the National Register of Historic Places and those deemed Critical by the County Historic Planner	1) U. S. Routes 9, 13, 113, and 404	2) States Routes 1, 16, 18, 24 from 113 east to Route 1, 26 from 113 east to Route 1, realignment Route 26 from 113 east to Route 1	· ·		
Name of Site(s) or Area(s)	Historic/arch- aeological sites	Highways		Sussex County Airport	1) Conrail system	2) All other rail facilities
Critical Area Category	<pre>Historic/ archaeological sites (continued)</pre>	Highways and intersections		Airports	Railroads and yards	

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

	Preliminary Evaluation Areas of More Than Local Concern	×	×	×	×	×	×
	as pality				·		
	s for Concern fied by Munici						
/aa///	Reasons for Identified		يعديد ناه معد عديد الميان المعاب عرض الميان				
	Type Ownership	×	×	×	×	×	×
.	Public & E	×	×			×	
	Brief Description (Location, size, etc.)	Lewes				(County-owned land)	
	Name of Site(s) or Area(s)	1) Delaware River and Bay Authority Ferry Terminal	2) Other Delaware Bay Port facilities	l) D.P.&L. Indian River Electric Generating Plant	2) Diamond State Telephone Company Central Exchanges	sites/ 1) centers Sussex County Industrial Park	All the major employers providing employment for Sussex County citizens
	Critical Area Category	Port facilities		Public utilities		Industrial sites/ 1) employment centers Sur	

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

	Preliminary Evaluation Areas of More Than Local Concern			
	Reasons for Concern as Identified by Municipality			
	Type of children of public three of public three of the children of the childr	×	×	
	Public g H			
	Brief Description (Location, size, etc.)			
	Name of Site(s) or Area(s)	All of those industries that are supportive of the agriculture industry in Sussex County	Those businesses providing goods and services to the tourist industry in Sussex County	
,	Critical Area Category	(No designation)*	(No designation)	

*Follow-up required

LOCAL CRITICAL AREAS FOR Town of Bethany Beach, Sussex County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Preliminary Evaluation Areas of More Than Local Concern	м	te X ~ wn	×	e he X	op
Reasons for Concern as Identified by Municipality	Major traffic hazards at both intersections	If planned properly this route can eliminate traffic congestion in the center of the town	Scarce resource that needs rebuilding and maintenance of the groins	Critical and vital part of the drainage picture in Bethany, that needs proper maintenance and provision of connecting drainage ditches	Proposed high density development would create negative impact on the character of the beach development
Type of Manership			×	×	×
Public allduq	×	×	×	×	×
Brief Description (Location, size, etc.)	Delaware Route I intersected by the town's major north - south street, Pennsylvania Avenue	From Route I to the Beach, within the town	The Atlantic beach area of the town	Within and adjacent to the town	Beyond Bethany Beach jurisdiction
Name of Site(s) or Area(s)	1) Highway inter- changes at north and south borders on the town (seasonal traffic)	2) Garfield Park- way (seasonal traffic)	Main Beach (maintenance)	Wetlands (maintenance)	Beachfront, areas to the north of the town (preservation)
Critical Area Category	Highways and intersections		Public beaches	Wetlands/tidal lands	Public beaches

LOCAL CRITICAL AREAS FOR Town of Bethany Beach, Sussex County (continued)

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

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	Preliminary Evaluation Areas of More Than Local Concern	×		· · · · · · · · · · · · · · · · · · ·	·
1000)	Reasons for Concern as Identified by Municipality	Action by County in designating solid waste dumps is causing economic hardship on beach area communities			
2000	Type of Comership colds of Col	×			į
। य	Typ Public Sne	×			
FOR DELAWAKE (JUNE - AUGUST 1900)	Brief Description (Location, size, etc.)	Geographical area of Sussex County around Bethany Beach			
-	Name of Site(s) or Area(s)	Solid waste dispos- al site locations			
	Critical Area Category	Waste disposal sites			

LOCAL CRITICAL AREAS FOR Town of Blades, Sussex County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Critical Area Category	Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Ownership Public Private Private	Reasons for Concern as Identified by Municipality	Preliminary Evaluation Areas of More Than Local Concern
Wetlands/tidal lands	Blades Causeway	North Market Street, Sussex County	×	Land is low	
					·
			·		
		+			

LOCAL CRITICAL AREAS FOR Town of Bridgeville, Sussex County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Preliminary Evaluation Areas of More Than Local Concern	×
Reasons for Concern as Identified by Municipality	During the summer months there are 60,000 to 70,000 cars per weekend creating traffic jams as long as 3 to 4 miles; intertown travel for town residents really impossible due to the traffic jams and heavy volume of traffic to resort areas
Type of Ownership	
Public and	×
 Brief Description (Location, size, etc.)	Summer beach traffic on Market and Main Streets of Bridgeville
 Name of Site(s) or Area(s)	Route 404 and Delaware 18 (seasonal traffic)
Critical Area Category	Highways and intersections

LOCAL CRITICAL AREAS FOR Town of Dagsboro, Sussex County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Preliminary Evaluation Areas of More Than Local Concern			-
Reasons for Concern as Identified by Municipality	Need larger bridge which will allow more water to be carried through the Pepper Creek Canal; this will reduce flooding on Main Street during stormy period	Cracked and broken up and disrupted by the roots; unsafe for traveling on foot or by bicycle	
Type of Canership Public Physics in		×	
Public & Public	×	×	
Brief Description (Location, size, etc.)	In the Main Street of the town over Pepper Creek Branch of 10 to 12 feet wide; Bridge is 30 feet wide	From Dagsboro to the Indian River High School (approximately 1.0 mile length); other streets around the town (approximately 0.5 mile length)	
Name of Site(s) or Area(s)	Bridge (limitation	Sidewalks (deteriorated)	
Critical Area Category	Highways and intersections	(No designation)	

LOCAL CRITICAL AREAS FOR Town of Delmar, Sussex County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Aquifers/ Rallroads and Conrail right-of 16 acres yards Or Area(s) (Location, size, etc.) Aquifers/ Town of Delmar 3 acres along York Street X and Paelo Channel Corrail right-of 16 acres way	Public of Public of Physic of A Physic of Physics of P	Reasons for Concern as Identified by Municipality 2,300 Fown residents depend on the Paelo Channel aquifer for their drinking water Railroad is the key to economic devleopment of the Delmar area	Preliminary Evaluation Areas of More Than Local Concern X
			,

LOCAL CRITICAL AREAS FOR Town of Ellendale, Sussex County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Preliminary Evaluation Areas of More Than Local Concern		X	×		·				
Reasons for Concern as Identified by Municipality	Drainage has always been a problem for the town	Major employment locations for Ellendale residents	Major employment locations for Ellendale residents				-		
Type of Control of Public Private Priv		×	×	 · · · · · · · · · · · · · · · · · · ·		 			
Public g a	×	· · · · · · · · · · · · · · · · · · ·	· 	 	 · · · · · · · · · · · · · · · · · · ·		····	 	
Brief Description (Location, size, etc.)	Town of Ellendale	Seaford	Milford						
Name of Site(s) or Area(s)	Three Ditch System	1) DuPont's	2) L. D. Caulk						
Critical Area Category	(No designation)	Industrial sites/ other employment	ה עד ע						

LOCAL CRITICAL AREAS FOR Town of Fenwick Island, Sussex County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

			1			
Critical Area	Name of Site(s)	Brief Description	Type of		Reasons for Concern as	Preliminary Evaluation
Category	or Area(s)	(Location, size, etc.)	Public		Identified by Municipality	Areas of More Than Local Concern
Historic/ archaeological sites	1) Fenwick Island Lighthouse	Approximately l acre	×	Only	Only seaside lighthouse in the State still standing	×
	2) Fenwick Island Lighthouse Keepers House		× .		Historical Interest	×
Public Beaches	1) Fenvick Island Ocean Beach	1 mile along ocean	×	Recreati absorbs	Recreational area - also absorbs energy from storms	×
	2) Fenwick Island Sand Dunes (protection)	1 mile along ocean	×	Prote	Protection from storms	×
Wetlands/tidal lands	Fenwick Island Wetlands	2 miles along Assawoman Bay	×	Spawning crustacea	Spawning ground for fish, crustaceans	×
and the same of th						
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		*	-			

LOCAL CRITICAL AREAS FOR Town of Frankford, Sussex County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Preliminary Evaluation Areas of More Than Local Concern			
Reasons for Concern as Identified by Municipality	Building in gross disrepair, insufficient heating, no water or bathroom facilities, quarters cramped	Menace to residents in that the health, peace, safety, cleanliness and good order of the town are in jeopardy while this structure remains	
Type of Connership		×	
Public of Type	×	·····	:
Brief Description (Location, size, etc.)	Small brick building formerly town bank; plot approximately 50 feet by 100 feet	No usable buildings; approximately 7 acres	
Name of Site(s) or Area(s)	Frankford Town Hall Social Area, Historic	Eagle Poultry Plant; inoperative	
Critical Area Category	Institutions*	Industrial site/ other employment centers; Communi- cations and public safety	

*Follow-up required

LOCAL CRITICAL AREAS FOR Town of Georgetown, Sussex County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

1300)	Reasons for Concern as Evaluation Identified by Municipality Areas of More Than Local Concern	To maintain the existing Colonial style	It was constructed in the original layout of the town; and it should remain as is regardless of the traffic	Very important for the future X of Delmarva	Adds to the pleasant living of the town people	Vital to the tax-payers to provide prompt service	To provide service to the X town and surrounding areas	
TCOOOW -	Type of Ownership Public	×		×				•••
	Public § H	×	×		×	×	×	
TOW THE SAME SOUTH	Brief Description (Location, size, etc.)	Colonial style buildings and National Register Buildings	Within the historic area of the town	8 acres	North Bedford Street; 4 acres	Off Adams Street; 4 acres	Off Stevenson Lane, southeast section of town; 7 acres	<u></u>
	Name of Site(s) or Area(s)	1) Historical area around the Circle and the existing busi- ness district	2) The Circle	Conrail right-of- way through town	Town Park	Georgetown mainten- ance yard and shop	Georgetown Sewer Treatment Plant	
	Critical Area Category	Historic/ archaeological sites		Railroads and yards	Other recreation sites	(No designation)	Public utilities	

LOCAL CRITICAL AREAS FOR Town of Greenwood, Sussex County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

				+		
Critical Area Category	Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Public Public Private Private	Pavate h o	Reasons for Concern as Identified by Municipality	Preliminary Evaluation Areas of More Than Local Concern
Historic/arch- aeological sites and cultural areas	Plaza and Municipal Parking Lot	Center of town	×		Historical	
Historical/ archaeological sites*	Greenwood United Methodist Church	Center of town	×	×	Historical	
Institutions	Town Office	Center of town	×	***************************************	Economic Value	
Public Utilities	Water tank	Center of town	×	**************************************	•	
Industrial Sites/ other employment	1) Greenwood Trust Company	Center of town	×	.	Economic Value	
Siannas	2) Penn Fibre	Corner of Church and Snyder		×	Employment	
-	3) Jas. Thompson Company	Corner of Church and Snyder	!	×	Employment	,
	4) New Process Fibre	North of town limit		×	Employment	
	5) Nanticoke Homes	North of town limits		×	Employment	×
77.74						

^{*}Follow-up required

LOCAL CRITICAL AREAS FOR Town of Henlopen Acres, Sussex County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Critical Area Category	Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Public Physics Physics	Private n. p.	Reasons for Concern as Identified by Municipality	Preliminary Evaluation Areas of More Than Local Concern
Public beaches	Beach	Block W; 5 acres		×	Beach fronting on the Atlantic Ocean	×
Flood hazard areas Flood hazard	Flood hazard zone	11 blocks of the town		×	Flood hazard zone	×
Other recreation sites	Beach Club	Block W; 3.8 acres	F 7	×	Beach front	
Cultural areas	Art League	Lot 2, Block J; 1.7 acres	F 3	×	Only Art League in the area serving many members	
Historic/ archaeological sites	Historic Site	Lot 1, Block J; 2 acres	F7	×	Historic site on National Register*	×
Other recreation sites	Marina	Block Q, 2.950 acres	×	<u> </u>	One of the best small Marinas on the East Coast	×
						
				-		

*Follow-up required, (R) revised since October 24, 1980

LOCAL CRITICAL AREAS FOR Town of Laurel, Sussex County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

		**************************************	-		
Critical Area Category	Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Public Public Private Private	Reasons for Concern as Identified by Municipality	Preliminary Evaluation Areas of More Than Local Concern
Public utilities	Sewage Lagoons	Three ponds located on the Northwest end of town; 18 acres	×	Area desingated for sewerage treatment	·
Other recreation sites	Laurel River Park	Laurel	×	Designated as a recreation area	
Public utilities	1) Water Tank Storage	North Laurel; 3 acres	×	Elevated water storage tank of 0.3 million gallon capacity	
	2) Water Tank, Storage and Water Well	Poplar Street and Clayton Avenue in Laurel; 2 acres	×	0.15 million gallon capacity elevated storage tank and water well	
	3) Water Wells and Pump Houses	Eighth and Maple Street, 1.5 acres; Poplar Street South of Market Street, 20 feet by 20 feet; Deshield Street near tenth Street, 1 acre	×× × .	Water wells for entire town	
Institutions	Cemeteries	West Street, 20 acres Ninth Street, 2.5 acres	××	Graves	-
Flood hazard areas	Flood Plain Areas	Areas on each side of Broad Creek, Little Creek and other as identified on	₩ ;	Flood zones	×
					· · · · · · · · · · · · · · · · · · ·

flood zone map

LOCAL CRITICAL AREAS FOR City of Lewes, Sussex County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

	Preliminary Evaluation Areas of More Than Local Concern	X	×			×		×	×	×	
1990)	Reasons for Concern as P Identified by Municipality	Recreation resource and flood hazard area	Historic value	Potential for future industry, possible port facility							
HUGUST	Type of Ownership	 	×	×					×	×	
	Eublic & C	×	×		×	× ×	×	×			
FOR DELAWAKE (JONE	Brief Description (Location, size, etc.)		Older section of Lewes	Cape Henlopen District; 140 acres	American Legion Road	Route 268 - Kings Highway	Schley Avenue	Savannah Road and Kings Highway	Savannah Road	Savannah Road	
	Name of Site(s) or Area(s)	Lewes Beach	Historic District	Industrial Zone (undeveloped)	Sewage Plant	Water Well Fields	Electric Plant	1) Schools (School Dist.)	2) Beebe Hospital	3) Beebe Clinic	
	Critical Area Category	Public beaches	Historic/ archaeological sites	(No designation)	Public utilities	Aquifers/recharge areas	Public utilities	Institutions			

LOCAL CRITICAL AREAS FOR City of Lewes, Sussex County (continued)

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Preliminary Evaluation Areas of More Than Local Concern		×		×	
Reasons for Concern as Identified by Municipality					
Private % of the private of the priv	×	×			
Type of Public Physic P			×	×	
Brief Description (Location, size, etc.)	Savannah Road and 4th Street	Savannah Road	Kings Highway and Savannah Road		
Name of Site(s) or Area(s)	Professional Association, Beebe Hospital	Fire Department	Major utility lines	Lewes and Rehoboth Canal	
Critical Area Category	(No designation)	Communications and public safety	Public utilities	Surface water bodies and port facilities	

LOCAL CRITICAL AREAS FOR Town of Millsboro, Sussex County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

))		
Critical Area	Name of Site(s)		Type of	Reasons for Concern as P Identified by Municipality	Preliminary Evaluation
Calegory	or Area(s)	(rocarion, size, erc.)	Public Private	idelitizated by mulicipaticy	Areas of More Than Local Concern
Industrial site/ other employment centers	1) N.C.R. Plant	On South edge of town, 30 acres; employs 600 to 2,000 persons	×	The economic vitality of the Communtiy depends on the proper use and development of the	×
	2) Inter-Continental Biologics, Inc.*	South edge of town, 29 acres; employs 75 persons	. ×	area	×
Shopping centers	Downtown and Commercial Districts	In Millsboro, serving an area extending about 30 miles in every direction	×	Without these districts, economy would certainly flounder	
Surface water bodies; and Other recreation sites	Millsboro Pond	168 acres	×	It is a recreational resource; in future it may be used as a source for water supply	×
			1		

*Follow-up required

LOCAL CRITICAL AREAS FOR Town of Millville, Sussex County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Critical Area Category					
	Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of Public Physics Provided	Reasons for Concern as Identified by Municipality	Preliminary Evaluation Areas of More Than Local Concern
No Critical Areas (to list as local input)			 		

LOCAL CRITICAL AREAS FOR Town of Milton, Sussex County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

	Preliminary Evaluation Areas of More Than Local Concern	×		×		
SI 1960)	Reasons for Concern as Identified by Municipality	If ever dredged could produce badly needed industry, business and create local trade	Holds the key to create further knowledge for area citizens. Source of learning of Milton's history	The entire business area could be hurt if heavy flooding ever developed		
AUGO	Type of Public Public Private Private			×		
<u> </u>	Public & Ty	×	×	×		
FUR DELAWARE (JUNE - AUGUST 1980)	Brief Description (Location, size, etc.)	Runs from Delaware Bay at Broadkill into heart of Downtown Milton	112 Union Streets, 0.5 acre in size, new this year	From center of town on Union Street, to Chandler Street. South down Magnolia Street around to Union Street.		
	Name of Site(s) or Area(s)	Broadkill River (potential port facilities)	Milton County Library	Downtown Milton; mostly a flooded area		
	Critical Area Category	Surface water bodies and port facilities	Institutions	Flood hazard area		

LOCAL CRITICAL AREAS FOR Town of Ocean View, Sussex County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Preliminary Evaluation Areas of More Than Local Concern	×			
Reasons for Concern as Identified by Municipality				
	·			
Type of Canership Public physical physi	×			
Public g H		 		
Brief Description (Location, size, etc.)	The zone covers about one-third of the Town in land coverage			
Name of Site(s) or Area(s)	Flood hazard zone		·	
Critical Area Category	Flood hazard areas Flood hazard zone			

LOCAL CRITICAL AREAS FOR City of Rehoboth Beach, Sussex County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

	Preliminary Evaluation Areas of More Than Local Concern	×	×	×	×	×	×	
10061 10	Reasons for Concern as Identified by Municipality	Damage or pollution would be catastrophic to City's economy	Continued quality and quantity of water is of vital importance	Important waterway; high aesthetic value	Damage or pollution would have serious effect on area economy	Heavily congested in summer, with traffic backups a common occurance	May alter and degrade the unique qualties and valued characteristics of the City; availability and costs of utilities and services can become matters of concern	
AUGUST	Type of the of the of the of the other translaters the other trans	ď	×				×	
। a	th g office	d ×	×	×	×	×	×	
FOR DELAWAKE (JONE	Brief Description (Location, size, etc.)	Rehoboth Beach area	Furnishing the City	and Rehoboth Delaware Bay to Rehoboth Bay	South of Rehoboth	Route 1, at and north and south of Rehoboth	The City and its continuous increase in intensity of use	
	Name of Site(s) or Area(s)	Beach and waters of the Atlantic Ocean	Aquifers	Lewes and Rehoboth Canal	Rehoboth Bay and tributaries	Highways (congestion)	Rehoboth and environs (high usage)	
	Critical Area Category	Public beaches	Aquifers/recharge areas	Port Facilities and surface water bodies	Surface water bodies	Highways and intersections	Public beaches	

LOCAL CRITICAL AREAS FOR Town of Selbyville, Sussex County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

Critical Area Category	Name of Site(s) or Area(s)	Brief Description (Location, size, etc.)	Type of	Reasons for Concern as Identified by Municipality	Preliminary Evaluation Areas of More Than Local Concern
Highways and intersections; Industrial sites/ other employment centers; and shopping centers	U.S. Route 113 and State Route 54	Two major routes to Atlantic beaches passing through Town and joining within Town limits	×	Lands adjoining these 2 major thoroughfares represent location of existing and future sites of economic development within the community	×
Waste disposal sites and Public utilities	Sewage lagoon on Polly Branch Road	37 acres located on N/S of Polly Branch Road; approximately l mile N/E of Main Street in Selbyville	×	This is the current site of the final collection lagoon for Town sewage and is the key to operation of the town sewage system	
Historic/ archaeological sites	Central town area*	Approximately 25 square block area radiating from corners of Church and Main Streets in Selbyville	×	This area presents a good collection of Victorian homes and businesses, many in excellent repair. Area also includes "Holloway House" which has been sited as one of the finest examples of Georgian Architecture in Sussex County	×
Surface water bodies	Polly's Branch	Small undeveloped stream passing through center of Selbyville	×	F. W 2 F. W 044	-
*Follow-up required	d (R) revised since October 24,	October 24, 1980	1	center of Town	

LOCAL CRITICAL AREAS FOR Town of Slaughter Beach, Sussex County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

1							
	Preliminary Evaluation Areas of More Than Local Concern	×	×	×	×		
LON LEARNING COUNTY TOUGH	Reasons for Concern as Identified by Municipality	Supports wildlife and seafood	Enjoyment of bathing, boating, fishing and crabbing, etc.	Town is under permanent flood control insurance program. Town must keep within said Federal Flood Control Program, in order to maintain the benefits from the same	Excellent beach on the east and a lovely unspoiled marsh, and wetlands on the west		
	Physic of	×		×	×		 ,
	Type of	×	×	×	×	×	
	Brief Description (Location, size, etc.)	3 miles long and varying width (A - 5 zone)	3 miles long and 150 feet deep (Y - 5 zone)	3 miles long, extending from the bay on the east to the east bank of Cedar Creek	The Town has 3 mile long curved shore line	In the town; excellent well equipped to handle fires, drownings or other mishaps	
	Name of Site(s) or Area(s)	Wetlands	Main beach	Flood hazard zones	Shoreline	Fire Company	
	Critical Area Category	Wetlands/tidal lands	Public beaches	Flood hazard areas	Unique natural areas	Communications and public safety	

LOCAL CRITICAL AREAS FOR Town of South Bethany, Sussex County

PREPARED BY THE MUNICIPALITY AS INPUT TO THE PRELIMINARY (DRAFT) STATEWIDE CRITICAL AREAS PLAN FOR DELAWARE (JUNE - AUGUST 1980)

	as Evaluation Ipality Areas of More Than Local Concern	beach X r concern r or State	or con- ich er quality le water- tical	nd unning, on activity	parcels Le family Ld damage Ture"; Iffect the of the
AUGUST 1700)	Reasons for Concern as Identified by Municipality	Preservation of the b should be of primary in any local, county planning activity	Any planning, zoning or construction activity which adversely affects water quality or navigability of the waterways would have a critical impact on the town	Should be protected and considered in any planning, zoning or construction activity in the area	Development of these parcels for other than "single family residential" uses would damage the "family beach nature"; and would adversely affect the physical attributes of the town
	Type Ownershic Office of Public	·		×	×
LON DEFENDED (SONE	Public & F	×	×		
	Brief Description (Location, size, etc.)	Entire beach front from Middlesex to the State lands	All waterways within the town	Portions of the town which are considered "wetlands"	
	Name of Site(s) or Area(s)	Town beach	Waterways	Wetlands	Undeveloped parcels
	Critical Area Category	Public beaches	Surface water bodies	Wetlands/tidal lands	(No designation)

B. LIST OF AGENCIES AND ORGANIZATIONS RECEIVING THE STATEWIDE CRITICAL AREAS PLAN (INITIAL DRAFT)

Distribution List of Agencies, Organizations, and Persons Receiving Copies of Plan

Federal Agencies

U.S.D.A., Soil Conservation Service
U.S. Fish and Wildlife Service
Federal Emergency Management Agency
Federal Insurance and Hazard Mitigation
U.S. Department of Commerce
National Marine Fisheries Service
U.S. Department of the Interior
Heritage Conservation and Recreation Service
Environmental Protection Agency
Department of Defense
Dover Air Force Base
Department of Transportation
Urban Mass Transportation Administration
Federal Aviation Administration,
Federal Railroad Administration

State Agencies

*Governor *Lieutenant Governor *Department of Justice Department of State Department of Transportation Department of Finance Department of Natural Resources and Environmental Control Department of Community Affairs and Economic Development Department of Administrative Services Department of Public Safety Department of Agriculture Department of Correction Department of Health and Social Services Department of Labor Delaware Solid Waste Authority Delaware Energy Office Delaware Geological Survey State of Delaware Treasurer State Fire Marshal Department of Public Instruction Delaware Technical and Community College Delaware State College University of Delaware

County Governments

Kent County

New Castle County

Sussex County

Municipal Governments

Kent County

Bowers Beach Camden Cheswold Clayton Dover Farmington Felton Frederica
Harrington
Hartly
Houston
Kenton
Leipsic
Little Creek

Magnolia Milford Smyrna Viola Woodside Wyoming

New Castle County

Arden
Ardencroft
Ardentown
Bellefonte
Delaware City

Elsmere Middletown Newark Newport

New Castle Odessa Townsend Wilmington

Sussex County

Bethany Beach
Bethel
Blades
Bridgeville
Dagsboro
Delmar
Ellendale
Fenwick Island

Frankford
Georgetown
Greenwood
Henlopen Acres
Laurel
Lewes
Millsboro
Millville

Milton Ocean View Rehoboth Seaford Selbyville Slaughter Beach South Bethany

Interest Groups and Organizations

Delaware Nature Education Society Save Our Seashores of Delaware League of Women Voters Sierra Club Watch Our Waterways Delaware Oilmen's Association Delaware Audubon Society Delaware Wildlife Federation Delaware Association of Conservation District Delaware Bass Chapter Federation Delaware Conservation Education Association Delaware Wild Lands, Inc. Delmarva Ornithological Society Forward Lands, Inc. Civic League for New Castle County Delaware League of Local Governments Delaware State Grange Delaware Farm Bureau Association for Preservation of Farmlands Emerson Realty Company Delaware River Basin Commission - Regional WILMAPCO - Regional *Delaware River Port Authority - Regional

^{*}Except for these agencies, all agencies and jurisdictions were contacted and/or participated in providing input to the Draft Plan.

C. COPIES OF CORRESPONDENCE TO AGENCIES AND ORGANIZATIONS

Copies of Correspondence from OMBP (and its consultant, Roy F. Weston, Inc.) to the federal, State, county, and local agencies and interest groups in connection with the development of the Statewide Critical Areas Plan for Delaware (Initial Draft) are presented in this Appendix. The attachments referenced in them are in the OMBP files at the Townsend Building, Dover, Delaware.



STATE OF DELAWARE EXECUTIVE DEPARTMENT

OFFICE OF THE DIRECTOR OFFICE OF MANAGEMENT, BUDGET, AND PLANNING
DOVER DELAWARE 19901

PHONE: (302) 678 - 4271

April 30, 1980

MEMORANDUM

TO:

358 Participants

FROM:

Mary McKenzie mmxX

SUBJECT: Critical Areas Plan

Since meeting with you last January and discussing the difficulties in the implementation of SB 358, and especially Critical Areas Plans, OMBP has been working to hire consultants to provide assistance in the preparation of a Statewide Critical Areas Plan. In this process, it is proposed that assistance can also be provided to those smaller jurisdictions that do not have the resources to prepare a local plan.

Enclosed please find a copy of the outline that was sent out to the consultants during the selection process. The items included in this proposal contain basically the areas that should be considered in the preparation of a critical areas plan.

It is anticipated that consultants will be on board around the first week in May. Shortly after, contact will be made with all jurisdictions and meetings will be held to discuss the process by which a Plan is to be prepared. Please note that the contractor (Roy F. Weston), while hired by OMBP, has as his primary responsibility for assisting local governments in developing their plans as inputs into the preparation of the Statewide plan.

It is proposed that we have a <u>Draft Critical Areas Plan by July 31, 1980</u>. While it is recognized that local input is needed for the State Plan, it may not be feasible to expect that each local jurisdiction will be able to process the local plans through the appropriate approval processes and have a final approved plan. Therefore, by July 31, 1980, it is requested that a draft plan which has gone through the first review and comment phase, ie. planning commission or town council, be submitted to OMBP.

358 Participants Page 2 April 30, 1980

Some jurisdictions are already drafting critical areas plans utilizing the guidelines that were sent out earlier. The attached outline includes basically the same types of procedures, and may include some additional examples.

Through the joint effort of all 358 participants, the consultants and others, it is hoped that we will be able to achieve the goal of producing adequate plans. Through this process, it is also anticipated that other areas, such as terms, definitions and procedures will be finalized.

MMcK/jad

Enclosures



WESTON WAY WEST CHESTER, PA. 19380 PHONE: (215) 692-3030 TELEX: 83-5348

29 May 1980

Your assistance is requested in developing a Statewide Critical Areas Plan for Delaware. Your help is needed in identifying areas that are important to your community. These areas may be highly sensitive to uncontrolled development impacts; may produce economic benefits (such as employment, income, and tax revenues); or, in the traditionally "critical" sense, are scarce and unique and, therefore, valuable to local and state residents.

Roy F. Weston, Inc. (WESTON) has been selected by the State to provide assistance in preparing a Draft of the Statewide Critical Areas Plan. The Plan will identify critical areas from a relatively broad perspective. The three broad critical area categories being used include: Physical areas (i.e., natural areas, beaches, flood hazard areas, major aquifers, reservoir sites, wetlands, forests and waste disposal areas), social areas (i.e., cultural areas; public institutions (health, education, and correction centers and historic sites) and economic areas (i.e., airports, railroads, major port facilities, major industries and industrial parks and sites, electricity generating station, future highway alignments, major utility lines, and significant rights-of-way).

WESTON is in the process of preparing a preliminary identification list of areas that are judged by various groups, agencies and residents to be critical according to their jurisdictions. We are interested in gathering as much information on critical areas as possible in a short period of time (two weeks). Because of the extensive review and approval process ahead, which is outlined below, it is not envisioned that this first-cut at critical areas identification will require local government reviews and approval.

To facilitate your response, a data collection form is attached. We will need a brief description of each critical area, with its location and approximate size (acreage). In addition, we need information and your perspective related to sensitivity, scarcity and economic value that describes why these areas are important.

This project, to prepare a Draft Statewide Critical Areas Plan, was initiated on 15 May 1980 and will be completed by 15 August. During this three month study period, there will be several opportunities for local and public involvement. On 23 June 1980, a Study Advisory Committee meeting is planned, which will include representatives of local government, special groups and the public. The initial list of critical areas will be presented at that time. Two or three weeks later, another committee meeting will be held for the purpose of approving critical areas for further analysis and inclusion in the Draft Plan. These meetings, are a key element in developing draft plan content. Notice of each of these meetings will be forthcoming.

At the end of the study period, WESTON will submit the Draft Statewide Critical Areas Plan for Delaware to the Office of Management Budget and Planning. The State will continue the review and refinement process after WESTON's assistance efforts have been completed, and will finalize the Plan with local concurrence.

To be helpful and included in this important study, your response which identifies critical areas must be received at WESTON by 13 June 1980. A return addressed stamped envelope is enclosed for your convenience.

Thank you for your assistance.

Very truly yours,

ROY F. WESTON, INC.

Van Dyke Polhemus Principal Investigator

VDP:mm

Enclosure



STATE OF DELAWARE EXECUTIVE DEPARTMENT

OFFICE OF MANAGEMENT, BUDGET, AND PLANNING

OFFICE OF THE DIRECTOR

Dover, Delaware 19901

PHONE: (302) 678 - 4271

May 29, 1980

MEMORANDUM

T0:

ALL DEPARTMENTS, DIVISIONS AND SPECIAL OFFICES

FROM:

DAVID S. HUGG III - MARY L. MCKENZIE, ITHE

SUBJECT:

INFORMATION REQUIRED FOR INPUT TO STATEVIDE CRITICAL AREAS

PLAN FOR DELAWARE

Roy F. Weston, Inc. (WESTON) has been selected by the State Office of Management, Budget and Planning to provide assistance in preparing a Draft Statewide Critical Areas Plan for Delaware. This Plan will identify critical areas from a broad perspective. The three broad categories being used are:

<u>Physical areas</u> - i.e. natural areas, beaches, flood hazard areas, major aquifers, reservoir sites, wetlands, forests and waste disposal areas;

<u>Social areas</u> - i.e. cultural areas, public institutions (health, education, corrections), and historic;

Economic areas - i.e. airports, railroads, major port facilities, major industries, major industrial parks and sites, electricity generating stations, major utility lines, significant rights-of way, future highway alignments.

We are in the process of preparing a preliminary identification of areas that are judged by various groups, agencies and residents to be critical to their jurisdictions. In this connection, we are also requesting your help and insights. We need your agency's input that indentifies areas which are sensitive to uncontrolled development impacts, produce economic benefits such as employment, income and tax revenue, or in the traditional sense, are scarce and unique and, therefore, valuable to local and state residents.

To facilitate your response, a data collection form is attached. We will need a brief description of each critical area and its location and approximate size (acres, length of right-of-way, etc.). In addition, we need

your insights related to sensitivity, scarcity and economic benefits, that describes why a specific area is important.

This assignment of developing the Draft Statewide Critical Areas Plan is scheduled for completion by 15 August 1980. A Study Advisory Committee meeting is planned for 23 June 1980 in which the <u>initial list of critical areas</u> will be presented. In order to meet this first deadline of 23 June, we request that you send a list of identified critical areas relevant to your department, division, or special office to the Office Of Management, Budget and Planning (Mary McKenzie) via your designated representative for the Land Use Planning Act.*

Ms. Dorothy Sbriglia Dept. of Community Affairs & Economic Dev.

Mr. Leroy O'Neal Dept. of Labor

Mr. Robert MacPherson Dept. of Natural Resources & Envir. Control

Mr. Glenn Pusey Dept. of Transportation

Mr. Arthur Vanderhoogt Dept. of Corrections

Mr. Daniel Griffith Dept. of State

Mr. Earl Cummins Dept. of Health & Social Services

Mr. Jack Mitchell Dept. of Administrative Services

Mr. M. U. Sockrider Dept. of Public Safety

Mr. Alden S. Hopkins Dept. of Agriculture

Mr. William Remington Dept. of Finance

Mr. Jack Nichols Dept. of Public Instruction

Mr. Wayne Gault State of Delaware Treasurer

Mr. Dan Anstine Delaware Treasurer

Mr. G. Arno Loessner University of Delaware

Mr. Edward Crawford Delaware State College

Mr. Robert Harra Delaware Technical & Community College

Mr. Benjamin Roy, Jr. State Fire Marshal

*It is noted that many agencies provided input on critical areas upon initial request by OMBP in 1979. For those of you who have submitted recommendations

previously, you may want to supplement the list. For those of you who did not provide any input, you may want to take the opportunity now.

Your response is requested by 13 June 1980.

Thank you for your assistance.

VDP:mm



STATE OF DELAWARE EXECUTIVE DEPARTMENT

OFFICE OF MANAGEMENT, BUDGET, AND PLANNING DOVER, DELAWARE 19901

OFFICE OF THE DIRECTOR

PHONE: (302) 678 - 4271

June 5, 1980

MEMORANDUM

TO:

358 Participants, County and Municipal Governments

FROM:

and Mary McKenzie/IMMCK

SUBJECT: Critical Areas Plan

You are in receipt of a letter from Roy F. Weston dated May 29, 1980 that requests local input in developing an initial list of Critical Areas for a Statewide Plan to be submitted by June 13, 1980.

It has been brought to our attention that this letter is being interpreted by many jurisdictions to be in conflict with the memorandum sent from OMBP on April 30, 1980 requesting Local Draft Critical Areas Plans by July 31, 1980.

We regret the confusion that has resulted from the two correspondences, and are hereby advising you that if you have information prepared by June 13, you may submit it, but material will be accepted after that date.

Because an assumption was made that some preliminary thoughts and work may have been done already by many of the jurisdictions in response to OMBP's previous memos on Critical Areas, the intent of Weston's request was to gather preliminary information for purposes of having front end material for discussion at the meeting scheduled for June 23, 1980.

A meeting will be held on Monday afternoon, June 23, 1980; the exact time (around 1:30-2:00 P.M.) and the location and agenda will be announced soon. This meeting will be for the purpose of determining the status of local critical area planning efforts, solicit initial recommendations for critical areas (per the intent of Weston's letter) and to answer questions concerning problems local jurisdictions may be encountering in their efforts.

358 Participants, County and Municipal Governments Page 2 June 5, 1980

We would appreciate any preliminary material that can be submitted at this meeting.

We are looking forward to meeting with you and appreciate your ongoing Critical Areas Plan activities.

DSH:MMcK:jad

cc: Glenn Johnson, Weston, Inc.

DOCUMENT SUMMARY

Document Id:

0040v

Document Name:

358 Participants

Operator:
Author:

DAVID HUGG JANICE DURHAM

Comments:

DO NOT DELETE

STATISTICS

OPERATION	DATE	TIME	WORKT IME	KEYSTROKES
·Created	06/05/80	13:37	:22	2174
Last Revised	06/05/80	14:16	:03	24
Last Printed	06/05/80	14:26		
Last Archived	/ /	:	onto Disket	te
Total Pages:	2	Total Work	ctime: :2	5 [.]
Total Lines:	32	Total Keys	strokes: 219	8

Pages to be printed 2



STATE OF DELAWARE **EXECUTIVE DEPARTMENT**

OFFICE OF MANAGEMENT, BUDGET, AND PLANNING

DIRECTOR

DOVER DELAWARE 19901

PHONE: (302) 678 - 4271

June 10, 1980

MEMORANDUM

T0:

"358" Participants and Interested Parties

FROM:

Mary McKenzie///mck

SUBJECT: MEETING ON CRITICAL AREAS

On Monday, June 23, 1980 at 1:30 p.m., a meeting will be held to discuss Critical Areas, at Delaware Technical and Community College, Terry Campus, 1862 North du Pont Parkway, Dover, Delaware, in Room 203.

AGENDA

- Status of Critical Areas Program
- (2) Data Collection Process
- (3) Discussion of Critical Areas
- Specific Local and Agency Information

I am looking forward to seeing you at the meeting.

MMcK:mas



STATE OF DELAWARE **EXECUTIVE DEPARTMENT**

OFFICE OF MANAGEMENT, BUDGET, AND PLANNING

OFFICE OF THE DIRECTOR

DOVER, DELAWARE 19901

PHONE: (302) 678 4271

July 2, 1980

MEMORANDUM

OT:

County and Municipal Jurisdictions

FROM:

Mary L. McKenzie / MX / kk

Critical Areas Plan, Assistance to Local Jurisdictions

In order to provide further assistance to local jurisdictions in the preparation of local Critical Areas Plans and input to the Draft Statewide Critical Areas Plan, an assistance meeting will be held in each county, as listed below:

Sussex County

DATE:

Tuesday, July 15, 1980

TIME:

7:00 P.M.

LOCATION:

Sussex County Council Chambers

Courthouse

Georgetown, Delaware 19947

Kent County

DATE:

Wednesday, July 16, 1980

TIME:

7:00 P.M.

LOCATION:

Kent County Administration Building

Room 316

Federal Street

Dover, Delaware 19901

County and Municipal Jurisdictions Page 2 July 2, 1980

New Castle County

DATE:

Thursday, July 17, 1980

TIME:

7:00 P.M.

LOCATION:

City of New Castle Council Chambers

Second Floor Town Hall

Second and Delaware Streets New Castle, Delaware 19720

If you cannot attend the local assistance meeting in your county, feel free to attend one of the other meetings.

In the meantime, if there are any questions or special assistance needs that you may want to discuss prior to the scheduled meetings, please feel free to contact me at 736-4271.

Thank you for your cooperation.

MMcK:jad

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STATE OF DELAWARE EXECUTIVE DEPARTMENT OFFICE OF MANAGEMENT, BUDGET, AND PLANNING DOVER, DELAWARE 19901

OFFICE OF THE DIRECTOR

PHONE: (302) 678 - 4271

July 10, 1980

MEMORANDUM

T0:

All Critical Areas Plan Participants

FROM:

Mary McKenzie namk

SUBJECT:

INVENTORY OF INPUT TO DRAFT STATEWIDE CRITICAL AREAS PLAN

All input from local, county, State, federal and interest groups regarding Critical Areas has been compiled and forwarded to each County "358" designee.

This material is on file at each County and also at OMBP for any jurisdiction or person who may be interested in reviewing what has been submitted. The inventory will be periodically updated as information is received by OMBP.

Contact persons at each location are:

New Castle County

Edward O'Donnell

New Castle County Department of Planning

Engineering Building 2701 Capitol Trail Newark, DE 19711 Phone 366-7780

Kent County

Michael Thompson

Kent County Planning Office

Kent County Administration Building

Federal Street Dover, DE 19901 Phone 736-2010

Sussex County

Roland Derrickson

Sussex County Planning and Zoning

Sussex County Courthouse Georgetown, DE 19947 Phone 856-7701 ext. 302

MMcK:mas



STATE OF DELAWARE EXECUTIVE DEPARTMENT OFFICE OF MANAGEMENT, BUDGET, AND PLANNING DOVER, DELAWARE 19901

OFFICE OF THE DIRECTOR

TELEPHONE: (302) 736-4271

July 24, 1980

MEMORANDUM

TO:

Local Jurisdictions and Critical Areas Plans Participants

FROM:

Mary McKenzie

SUBJECT: CRITICAL AREAS PLANS

In conjunction with previous correspondence and meetings of June 23, July 15, 16 and 17, 1980 with "358" participants regarding Critical Areas Plans, please note the following:

- While attendance at the above referenced meetings was low, it was found that they were beneficial to those who participated, as reflected by their input.
- Pursuant to the request from attendees at the June 23 meeting, input received by OMBP and its consultant (Roy F. Weston) has been compiled and is available for reference at the respective County Planning Offices (please refer to OMBP letter of July 10, 1980).
- The minutes of the meeting of June 23, 1980 are attached for your information. Also included is the list of objectives for the development of the Statewide Critical Areas Plan which was discussed at that meeting.
- In reference to our previous request (OMBP memorandum dated April 30, 1980), this is to remind you that you may submit a local Critical Areas Plan by July 31, 1980; the local input will be used toward the development of the Draft Statewide Critical Areas Plan, as required by the Land Use Planning Act (Senate Bill 358).

I would like to take this opportunity to thank you for your participation and cooperation in this joint effort.

Local Jurisdictions and Critical Areas Plans Participants Page 2 July 24, 1980

If you have any further questions on the Critical Areas Plan, please feel free to call me at 736-4271.

MMcK:mas

Enclosures (2) Minutes of meeting State objectives

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STATE OF DELAWARE EXECUTIVE DEPARTMENT

OFFICE OF THE DIRECTOR

OFFICE OF MANAGEMENT, BUDGET, AND PLANNING
DOVER, DELAWARE 19901

TELEPHONE: (302) 736-4271

July 30, 1980

MEMORANDUM

TO:

Critical Areas Plan Participants

FROM:

Mary McKenziemmuk

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SUBJECT: ATTENDANCE LIST FROM MEETING OF JUNE 23, 1980 ON CRITICAL AREAS

Attached please find a copy of the list of attendees at the June 23, 1980 Critical Areas meeting, as requested by some of the participants. This attachment was inadvertently excluded when the minutes of the meeting was mailed to you.

MMcK:mas Enclosure



STATE OF DELAWARE EXECUTIVE DEPARTMENT

OFFICE OF MANAGEMENT, BUDGET, AND PLANNING DOVER, DELAWARE 19901

OFFICE OF THE DIRECTOR

TELEPHONE: (302) 736-4271

October 24, 1980

Dear

I would like to take this opportunity to express sincere appreciation on behalf of both the Office of Management, Budget and Planning and Roy F. Weston, Inc., for the cooperation and courtesy that was extended by your jurisdiction in providing your input to the Draft (Preliminary) Statewide Critical Areas Plan.

It is gratifying to note that nearly all of the jurisdictions, including the three Counties, have responded to make this effort a success.

Enclosed please find a copy of the input for your jurisdiction that has been submitted to us (Attachment I). The form on which the information has been placed represents the first level of preparation of the Draft (Preliminary) Plan. As you may note, the last category reflects the preliminary evaluation of your input as candidate areas for the Statewide Critical Areas Plan. This evaluation was based on criteria developed and utilized in conjunction with the definition and characteristics of critical areas (please refer to Attachment II).

The preliminary evaluation denotes what is perceived as areas of more than local concern, but at this stage should not be construed to mean that they represent critical areas that are to be incorporated into the Final Statewide Plan. Additional levels of preparation will include further review and examination in order to determine to what extent these candidate areas are eligible for designation as critical areas at the State level. Those areas identified as "of more than local concern" will be included in the Statewide Critical Areas Plan Inventory.

The Draft (Preliminary) Statewide Plan is scheduled to be prepared by the middle of November 1980; a copy of the Draft Plan will be sent to you for your review and comment. It is intended that the comments of the Draft Plan will be incorporated into the text prior to the public meeting/public hearing phase of the Critical Areas Plan preparation.

If you have any questions, please feel free to contact me at 736-4271.

Again, thank you for your assistance in this effort.

Very truly yours,

Thany of MK Kengu Mary L. McKenzie

Planner

MLMcK:mas Enclosures (2)

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